

FIGURE 1

TM-020 Mode Cavity with Inner Cylinder

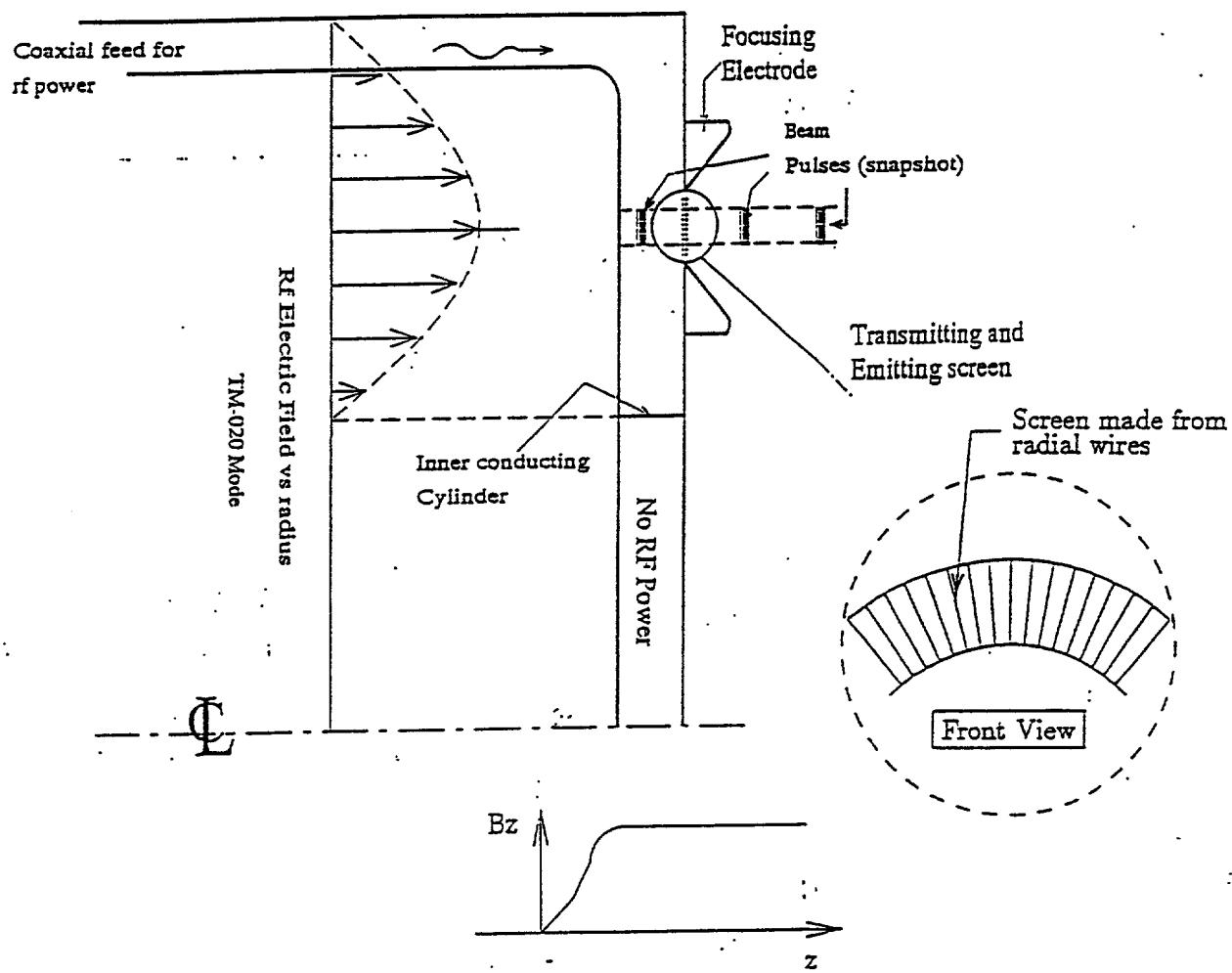


FIGURE 2

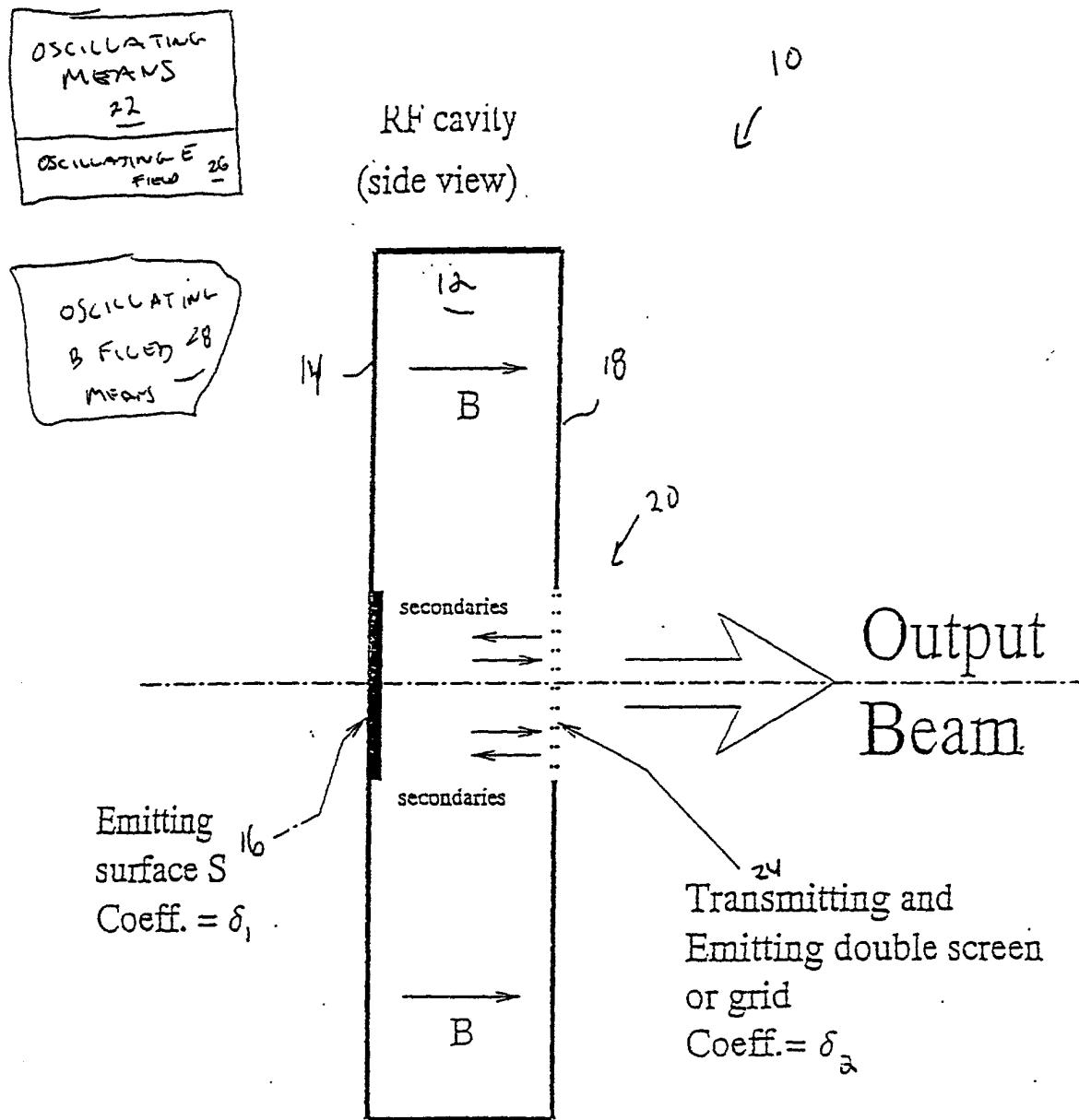


FIGURE 3

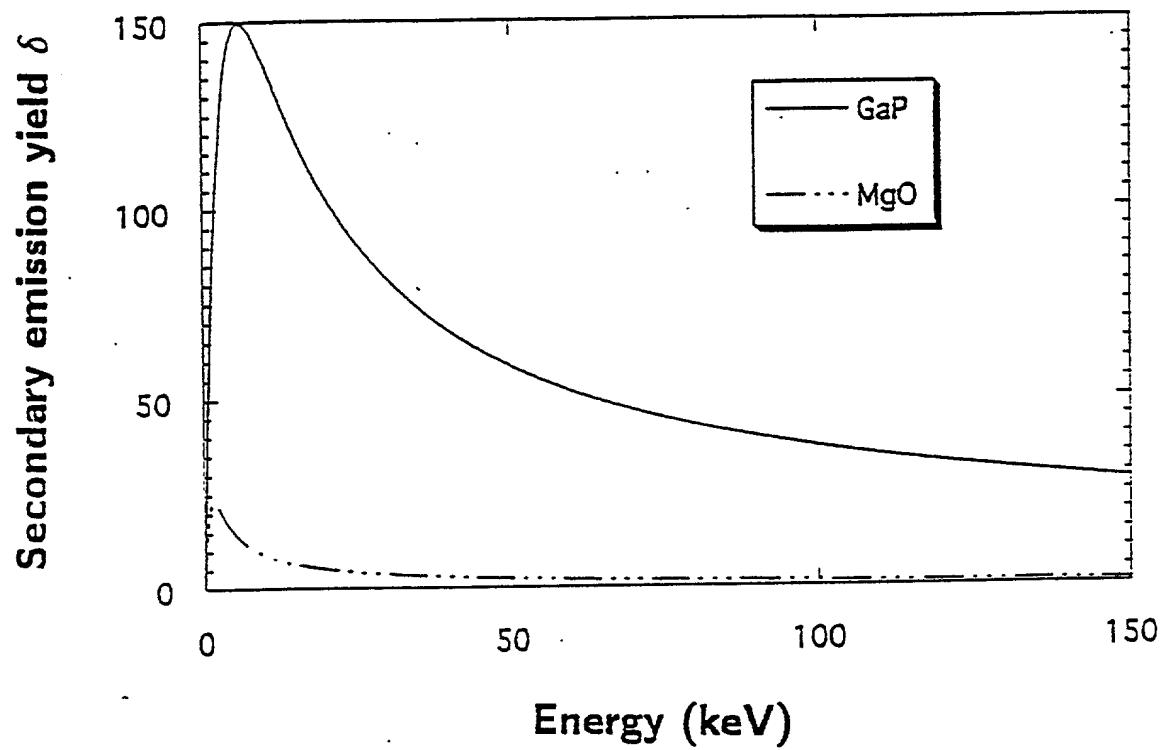


FIGURE 4

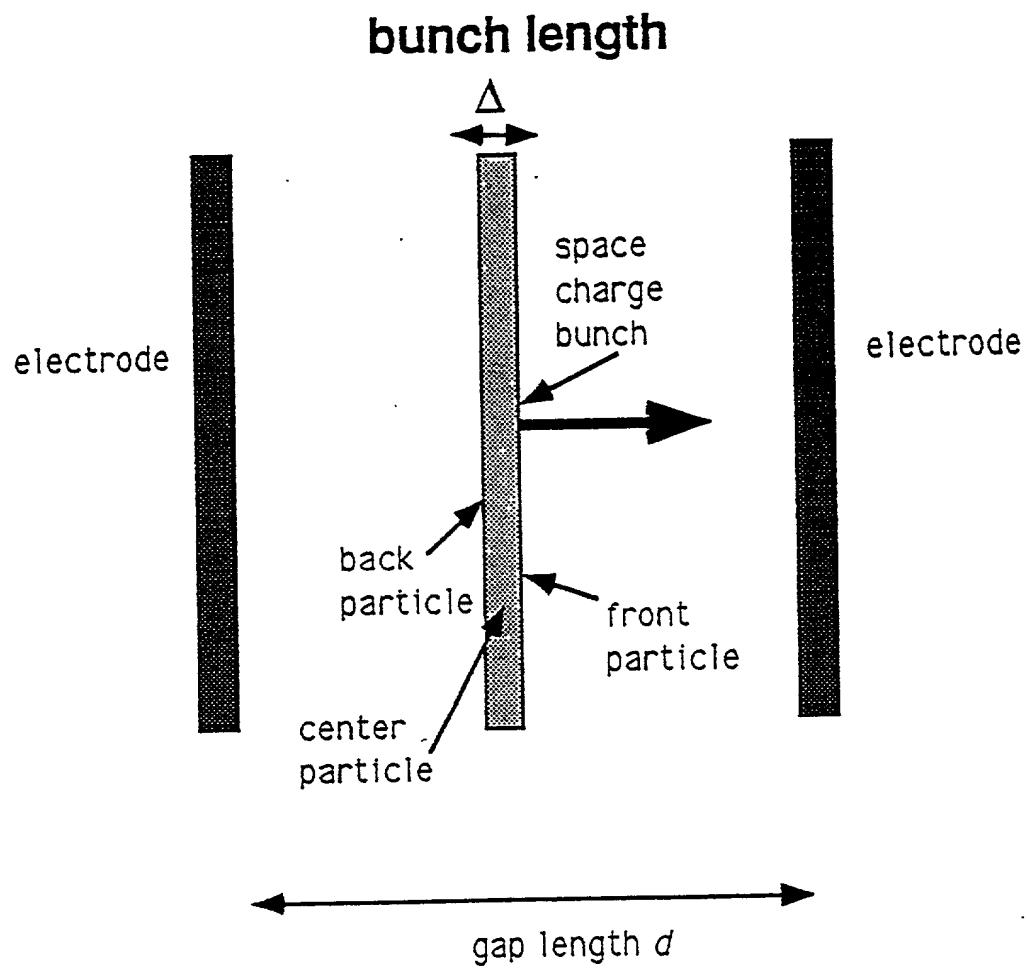


FIGURE 5

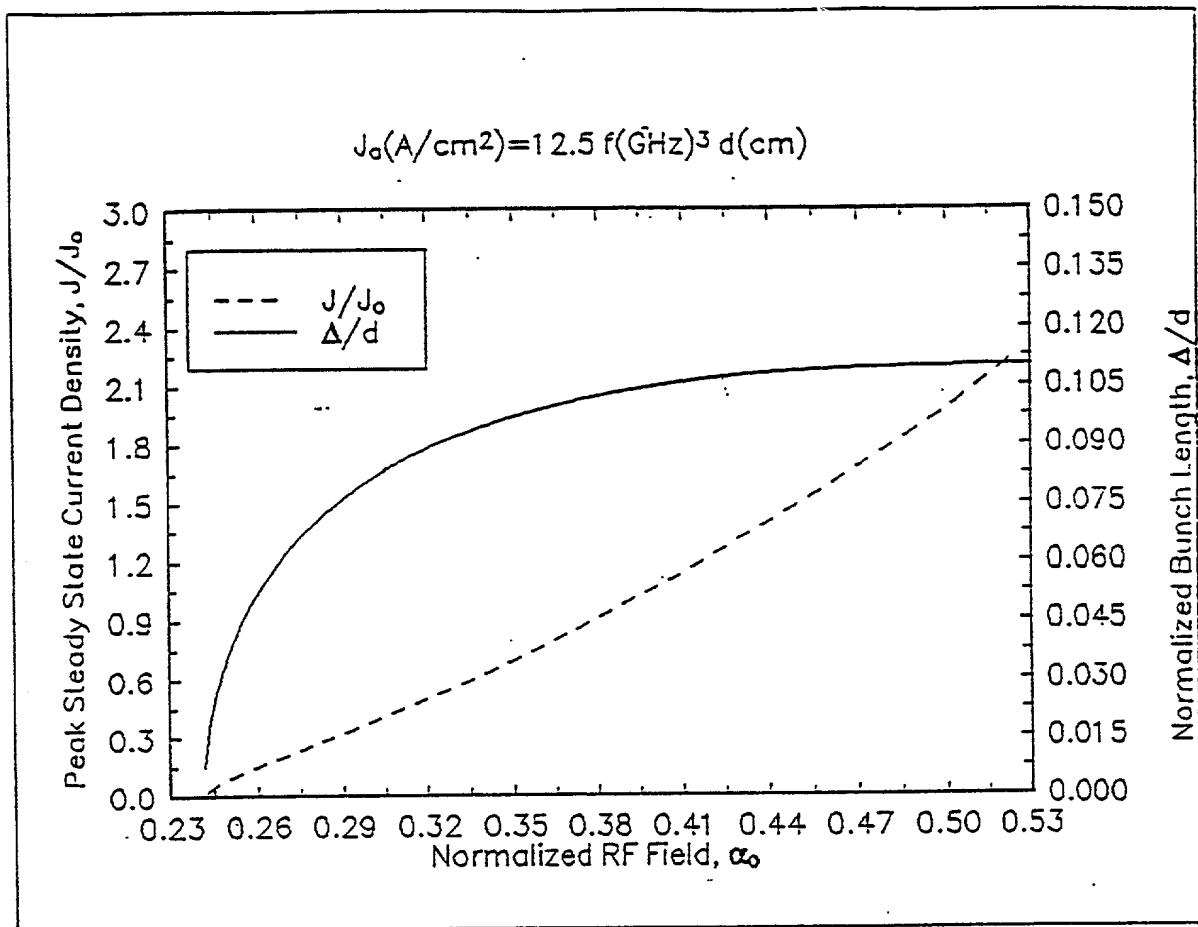


FIGURE 6

Resonant & Kilpatrick Electric Field vs Frequency
Resonant Electric is given at different gap spacings

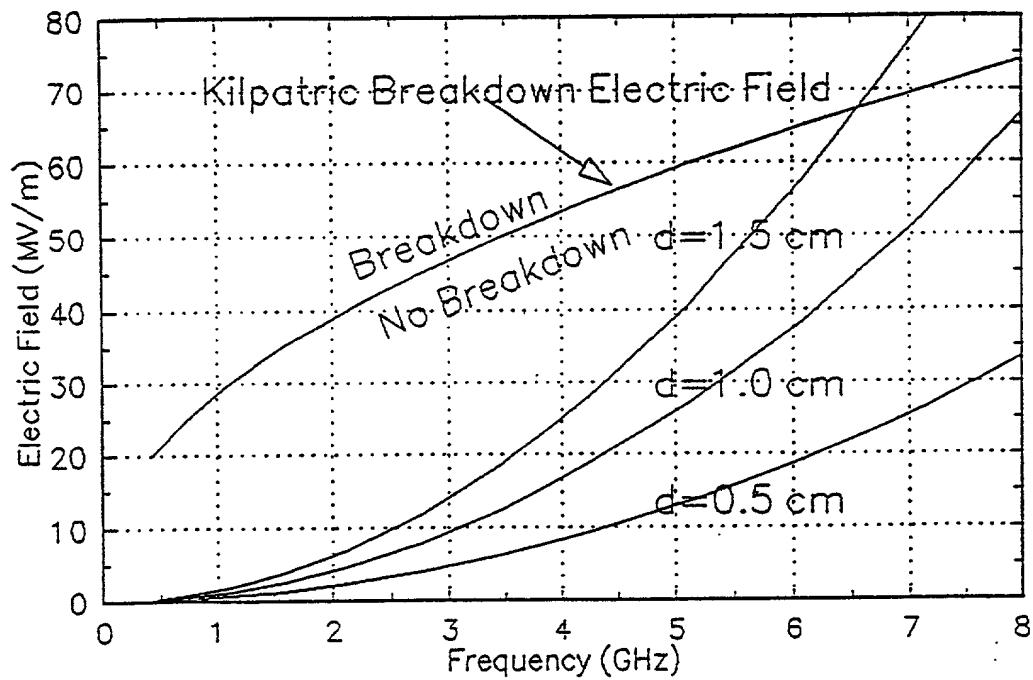


FIGURE 7

1.3 GHz, xy plot

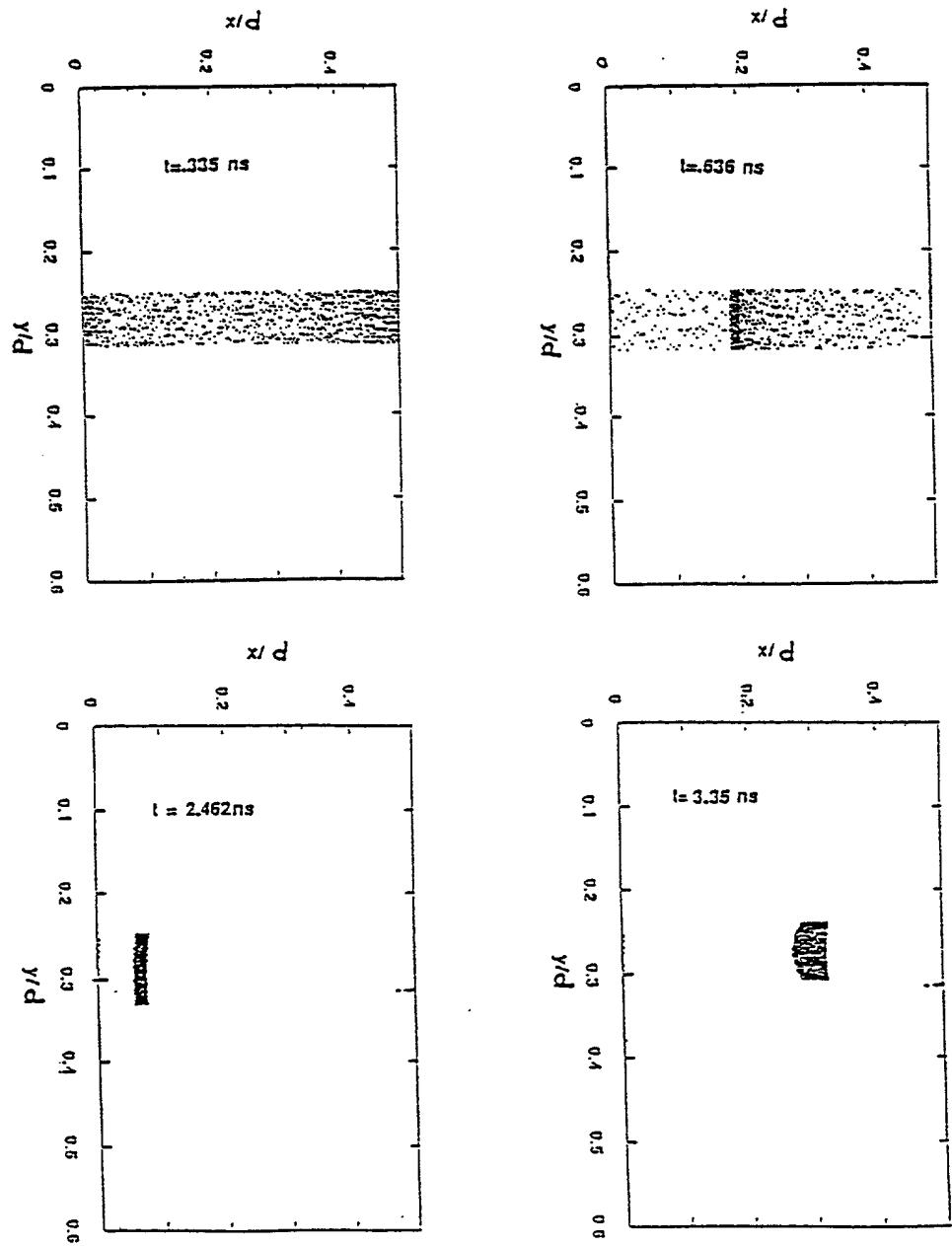


FIGURE 8

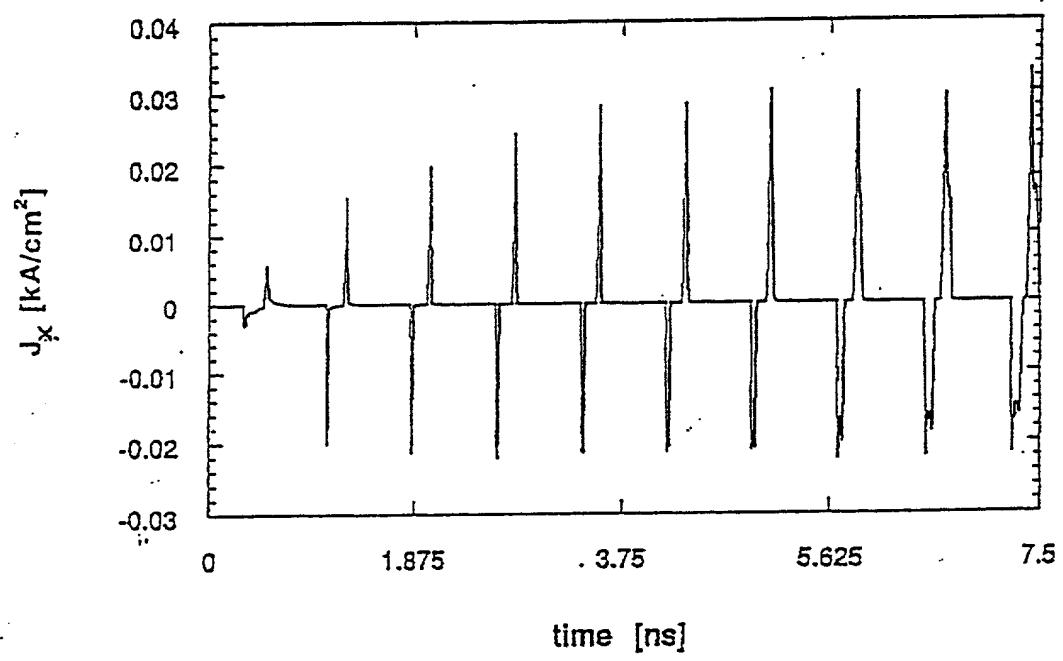


FIGURE 9

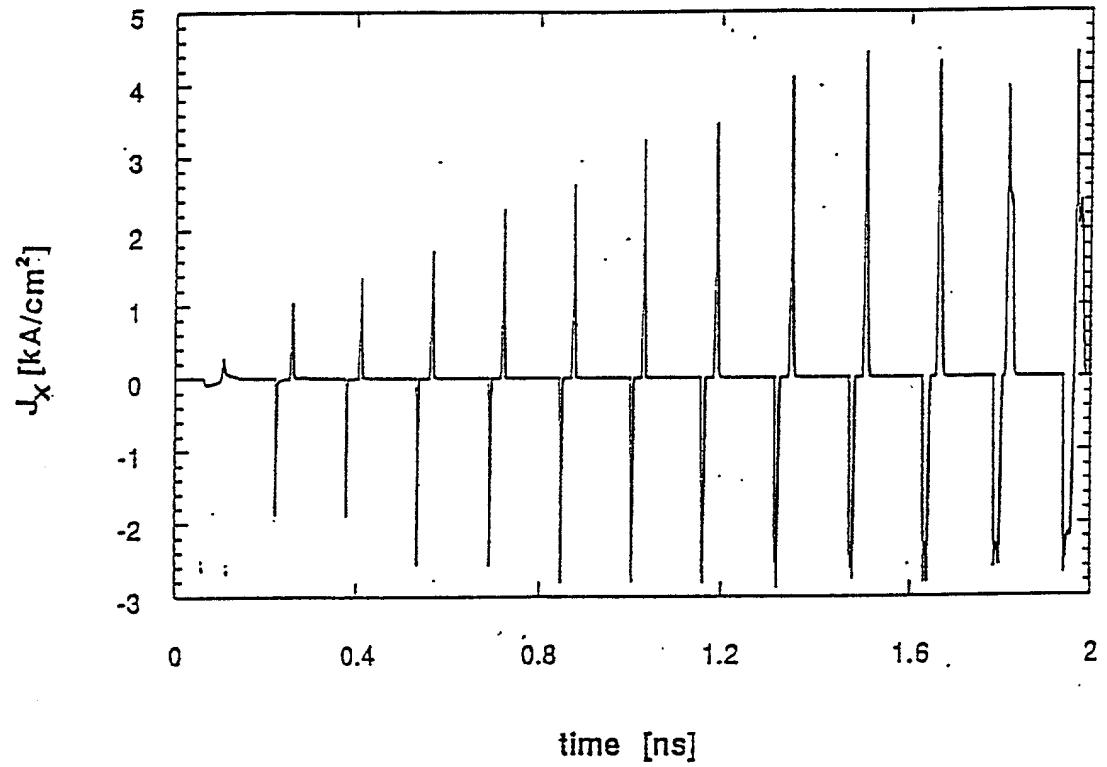


FIGURE 10

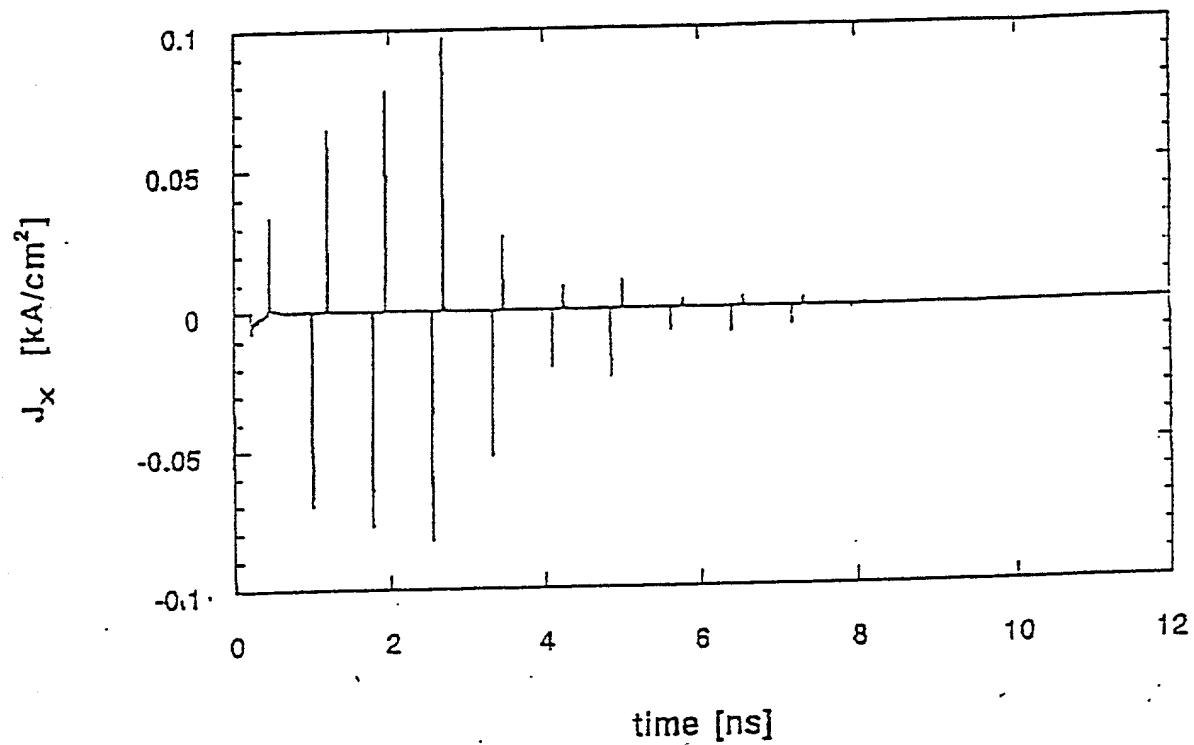


FIGURE 11

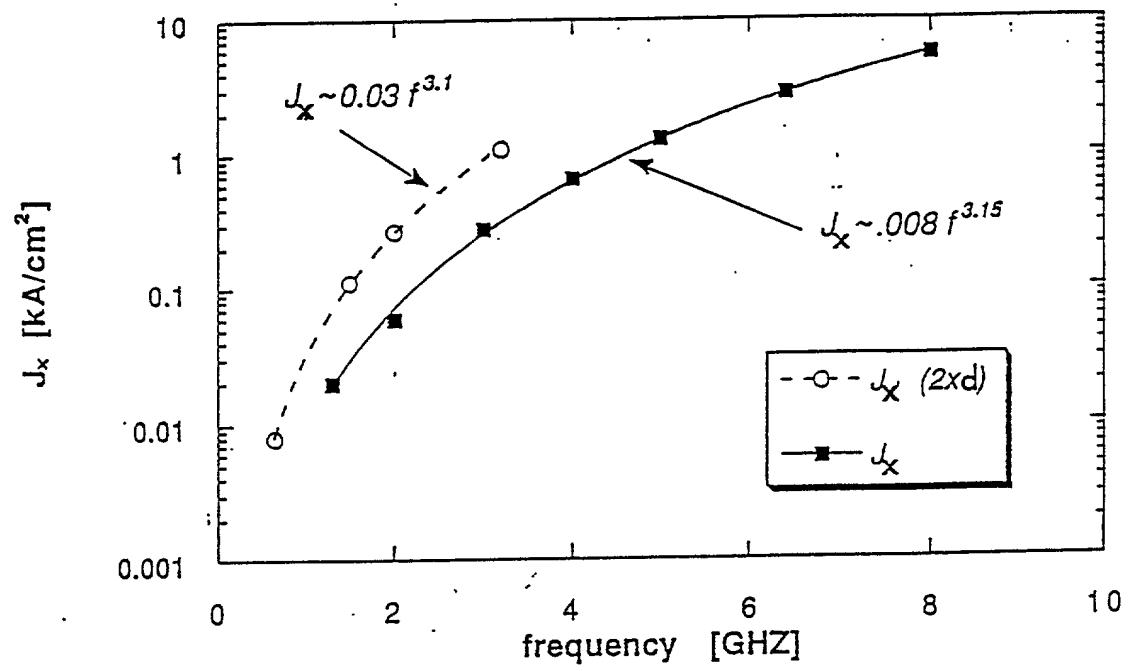


FIGURE 12

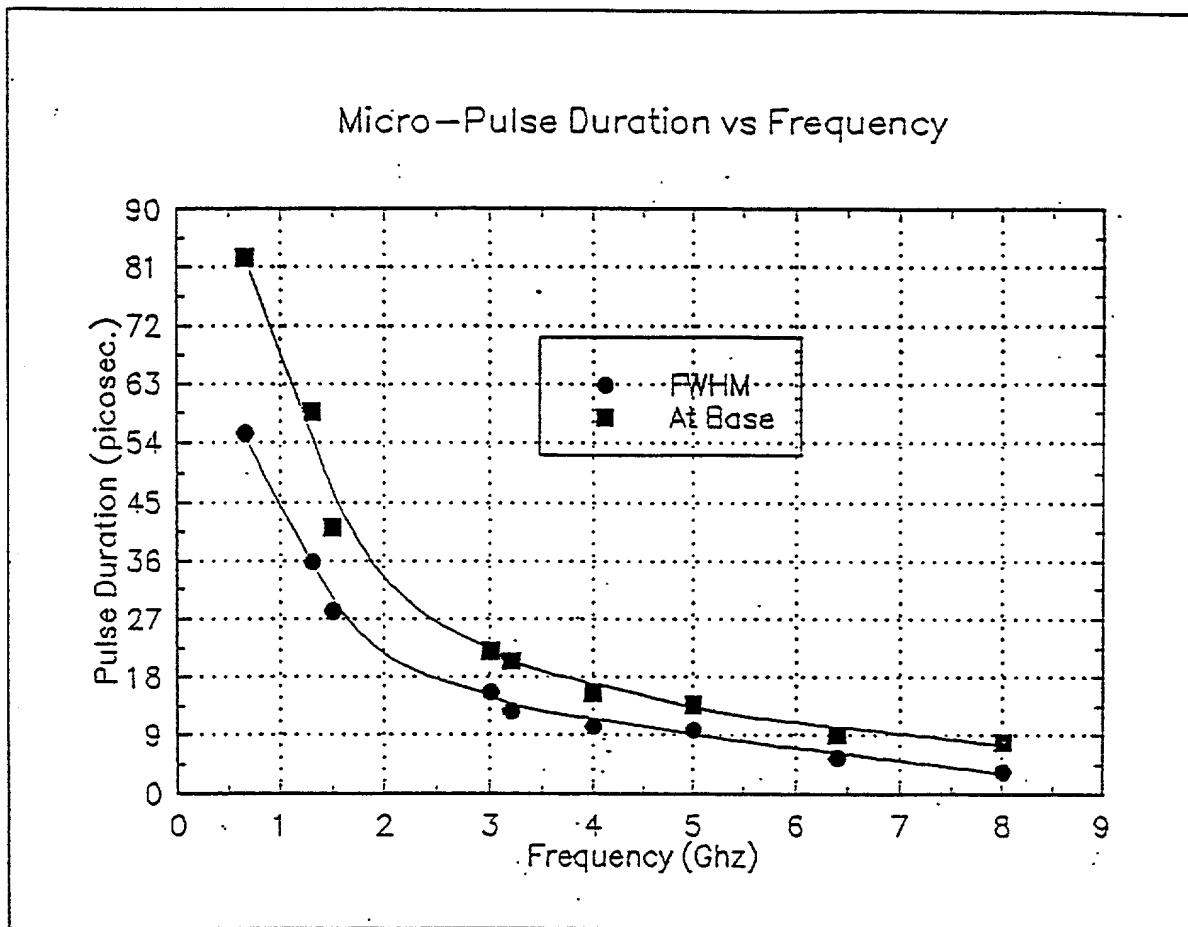


FIGURE 13

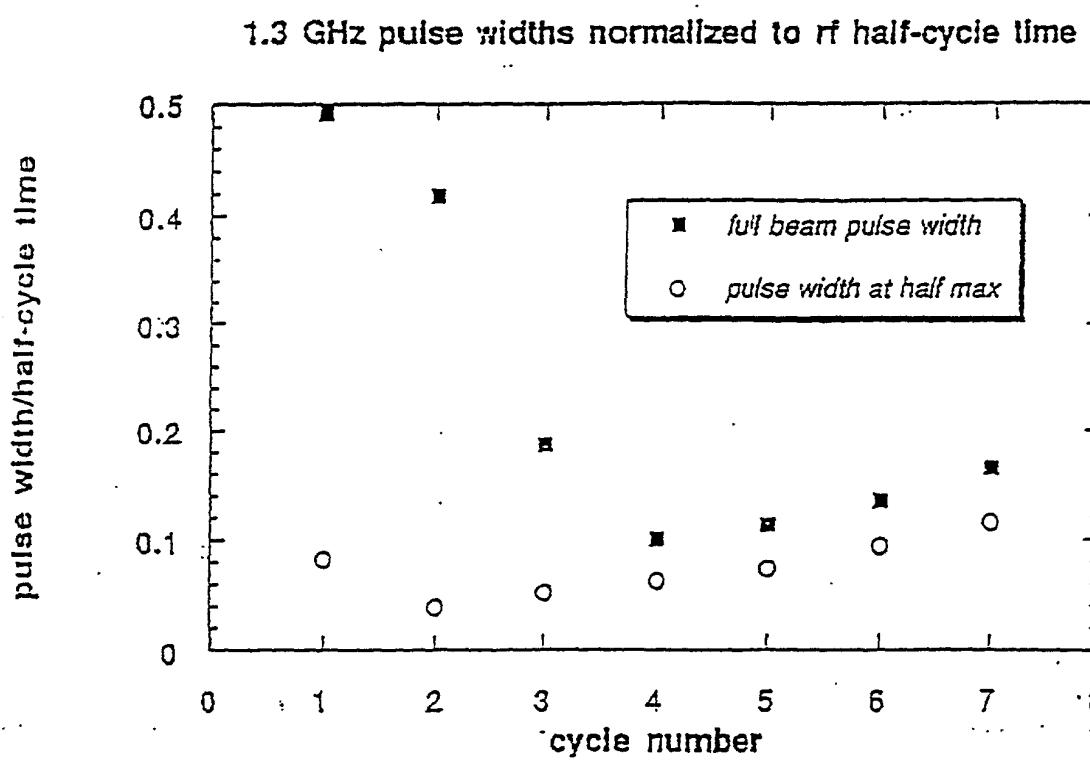


FIGURE 14

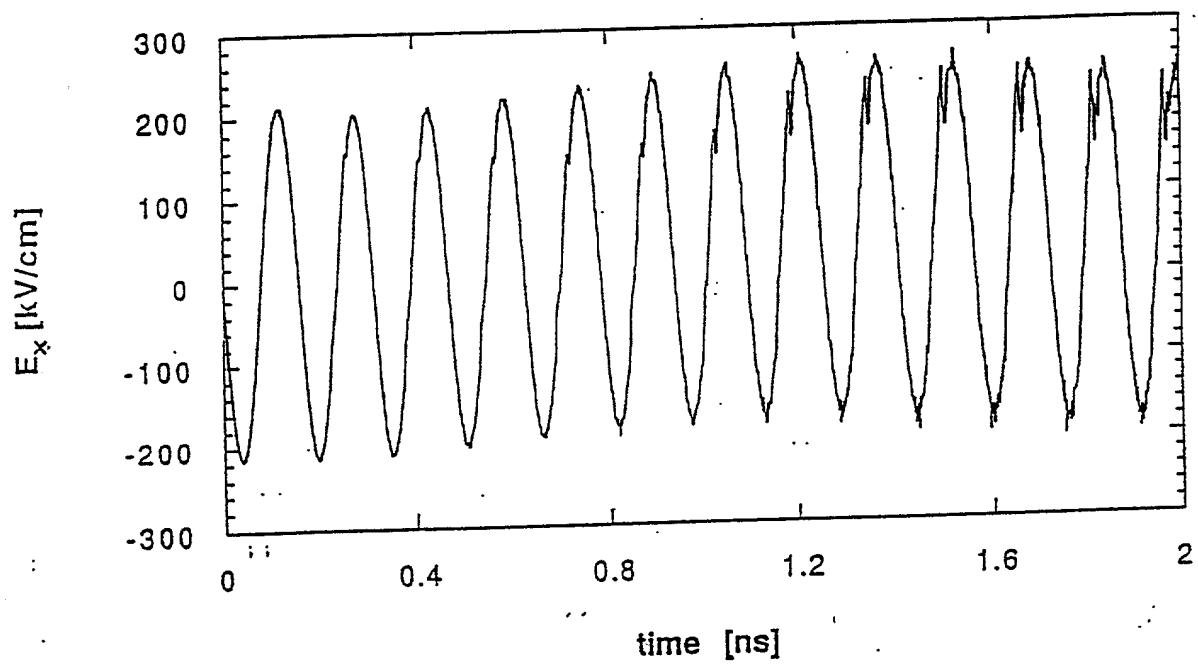


FIGURE 15

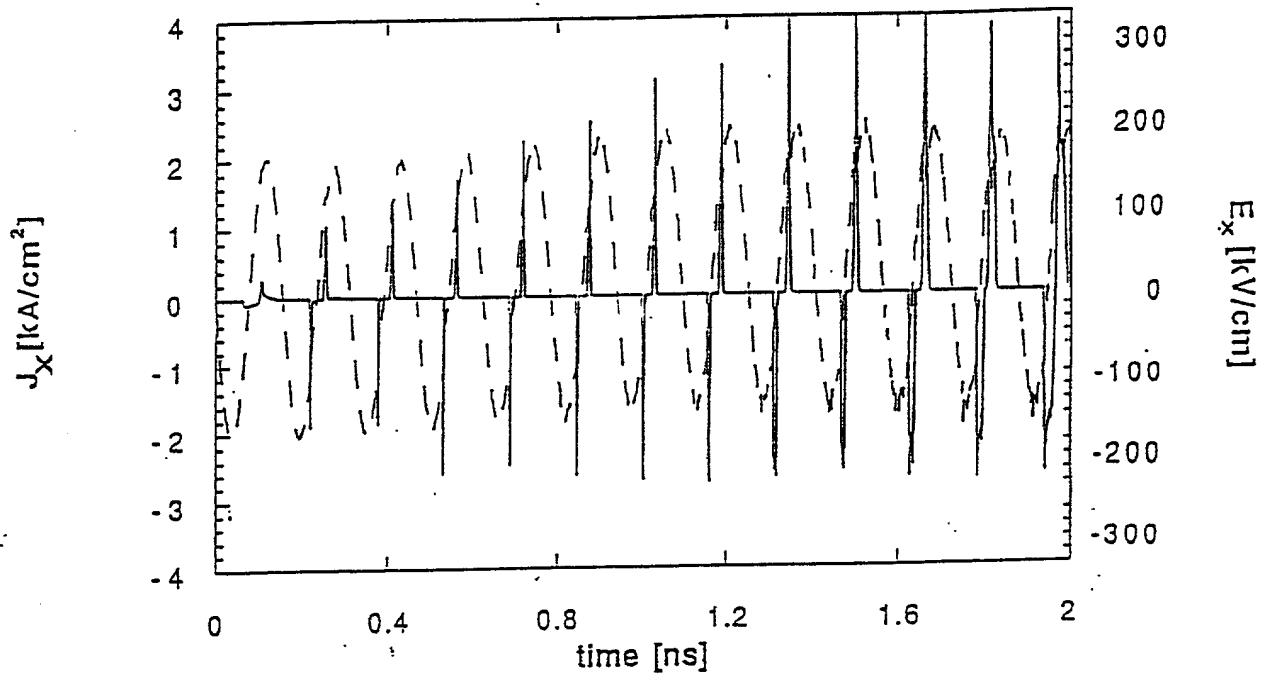


FIGURE 16

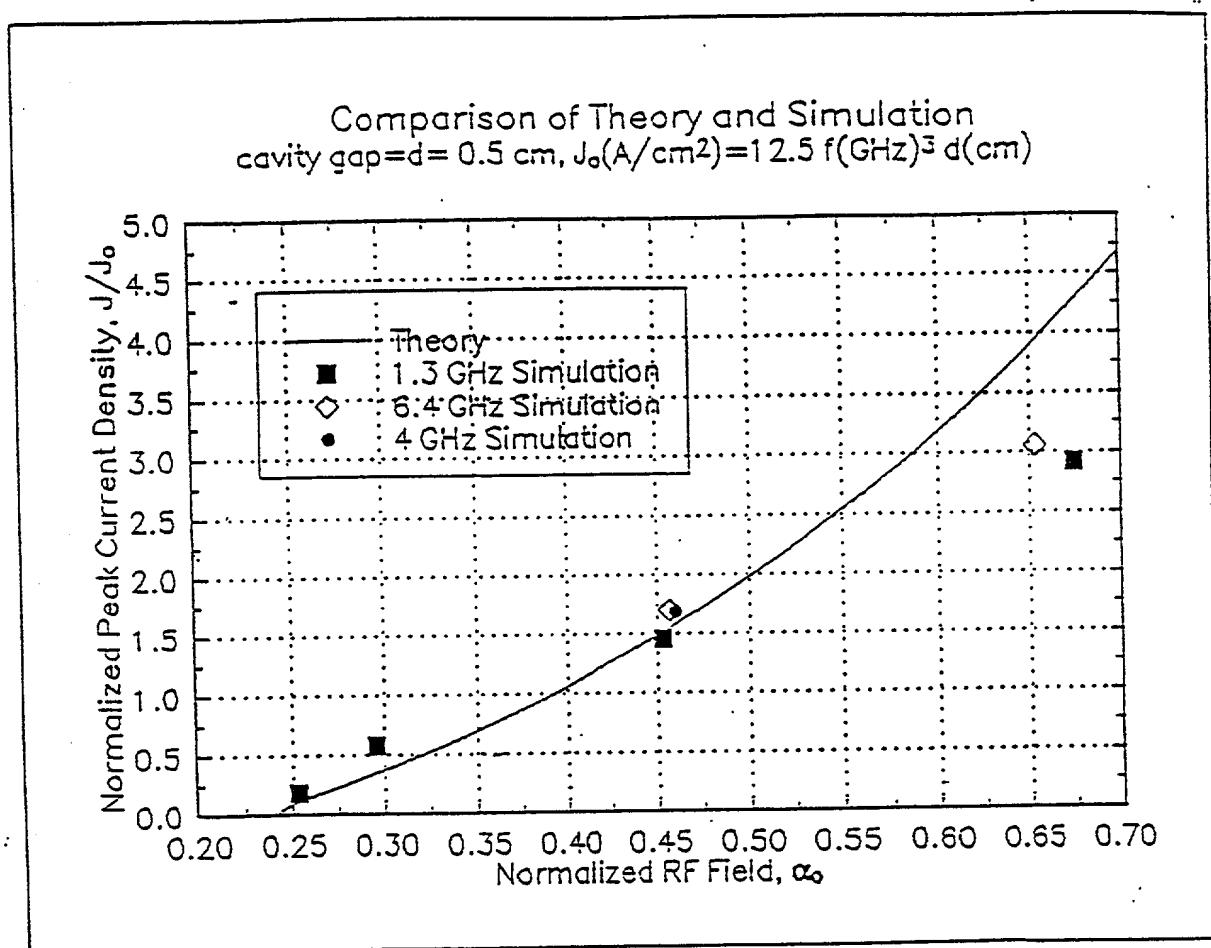


FIGURE 17

Comparison of Theory and Simulation

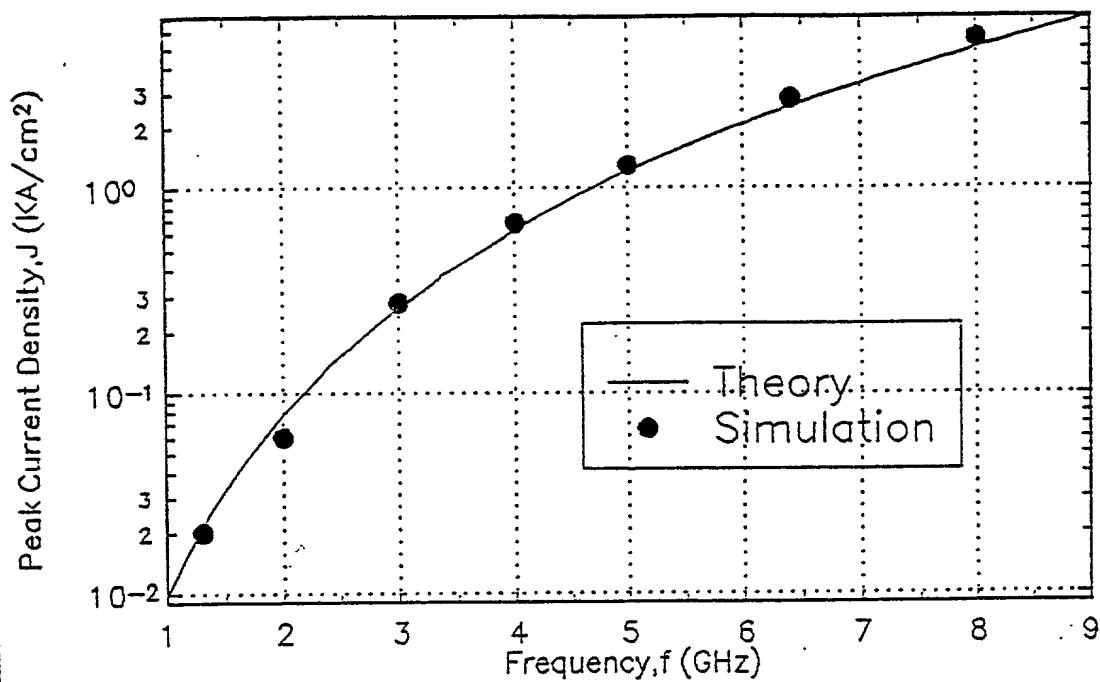


FIGURE 18

0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00

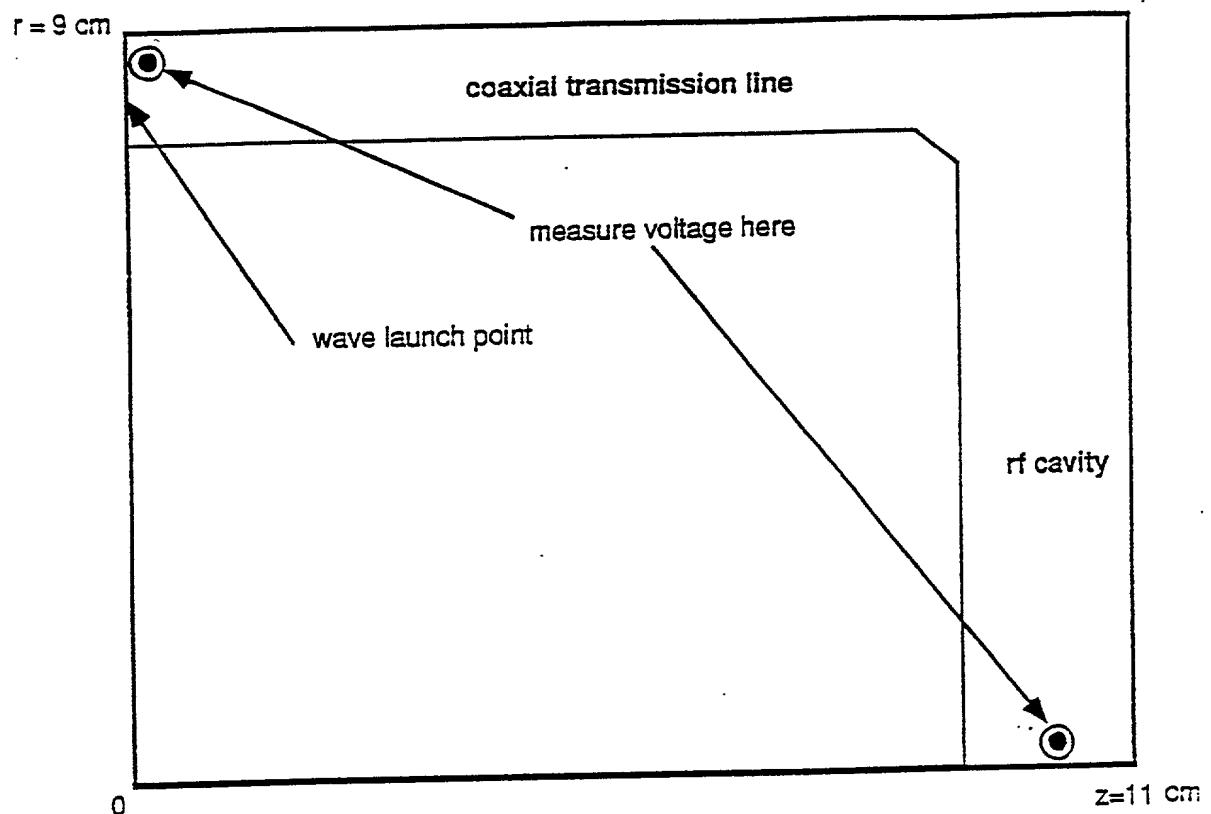


FIGURE 19

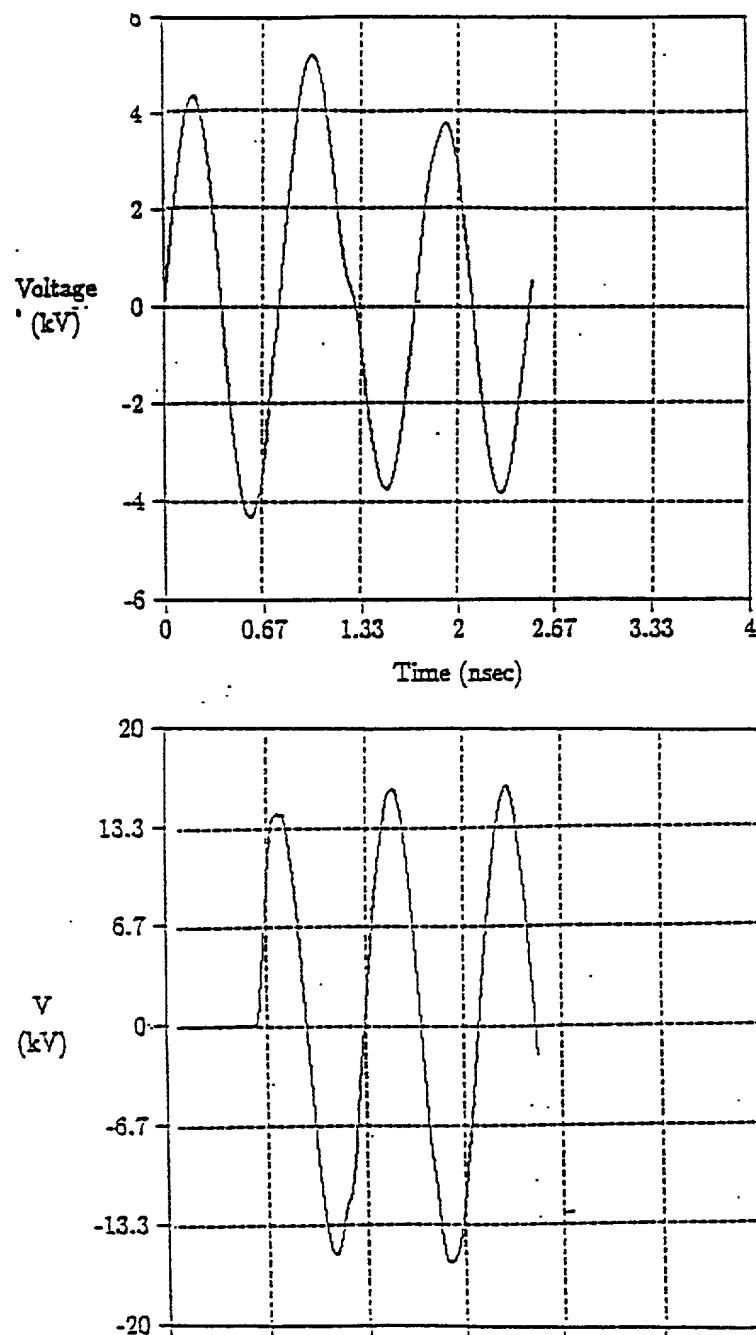


FIGURE 20

Electric Field vs Radius for an Ideal and a Coaxially Fed Cavity
 TM_{010} mode at 1.275 GHz, Cavity Gap=1 cm, Coaxial Gap= 1 cm

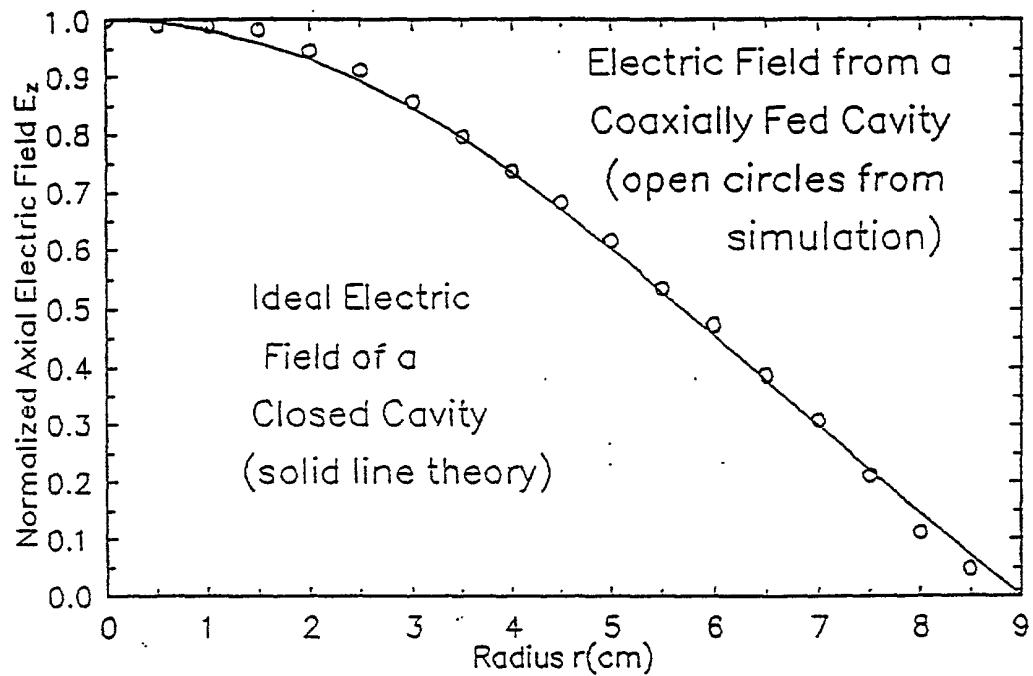


FIGURE 21

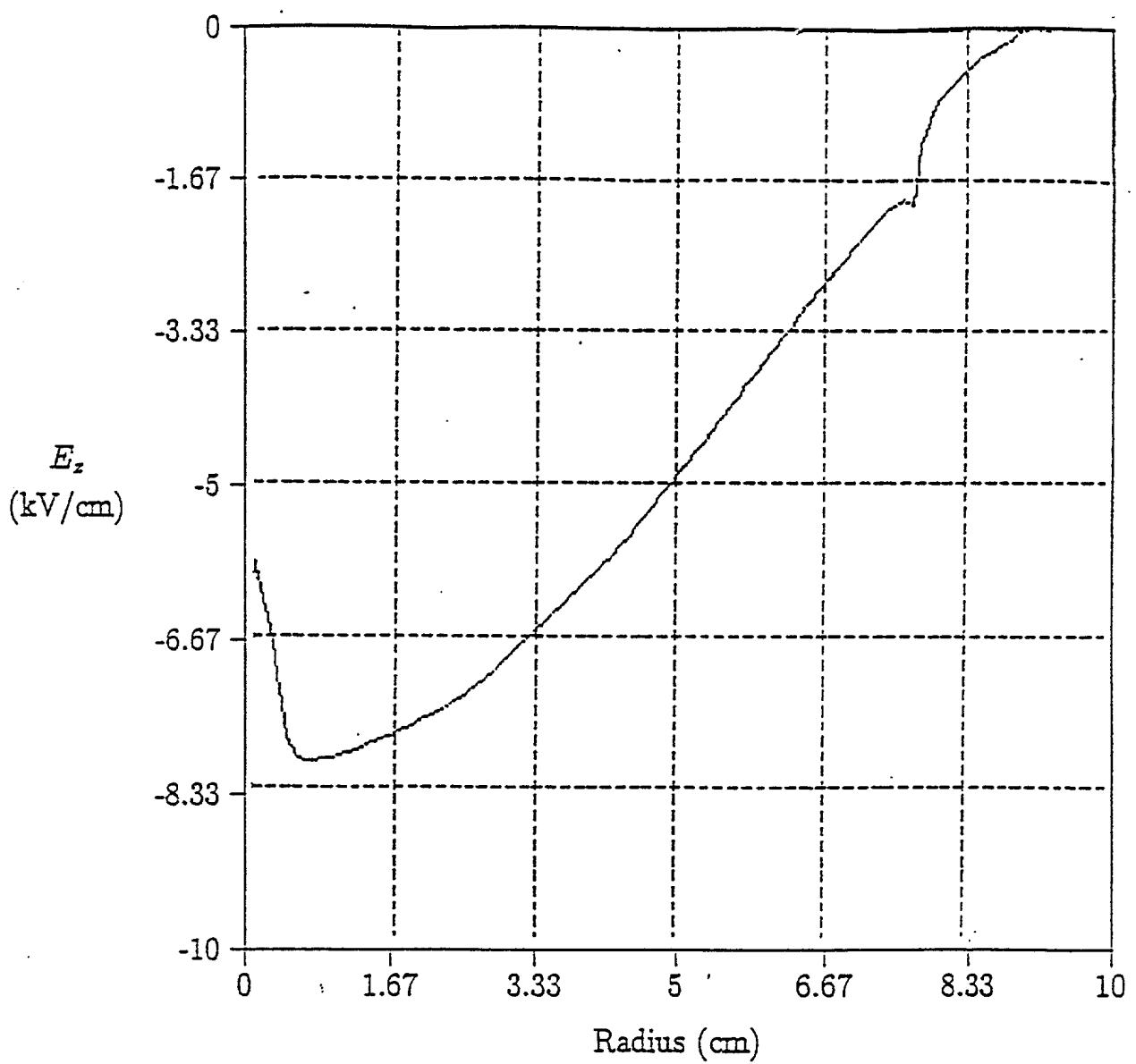


FIGURE 22

Electric Field vs Radius for an Ideal and a Coaxially Fed Cavity
 TM_{020} mode at 1.275 GHz, Cavity Gap=1 cm, Coaxial Gap= 1 cm

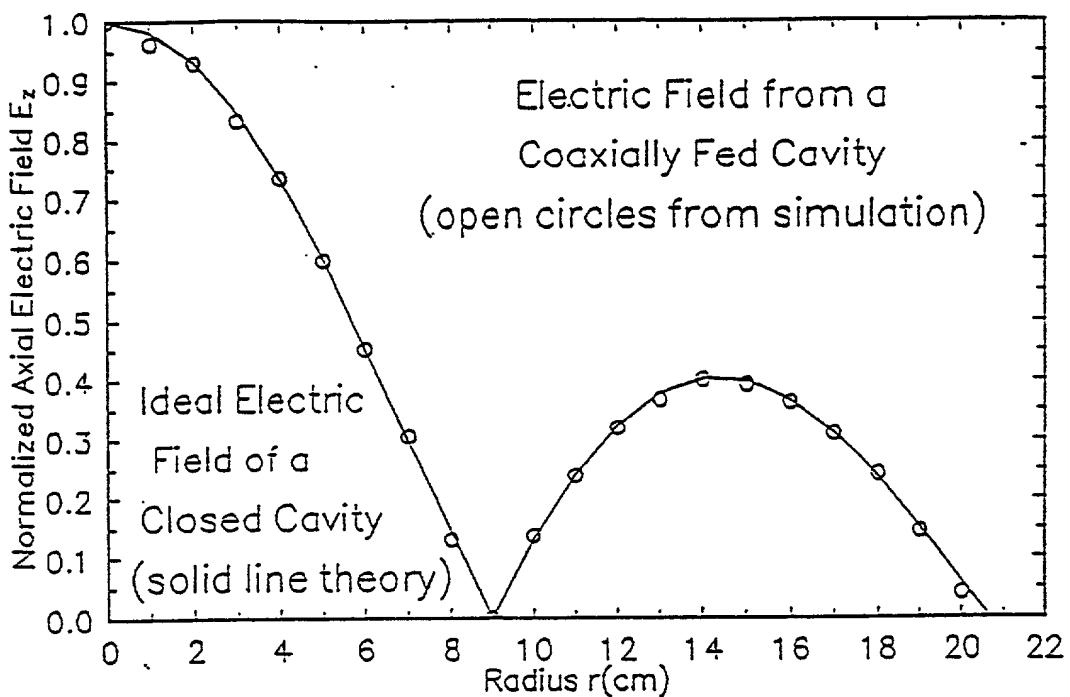


FIGURE 23

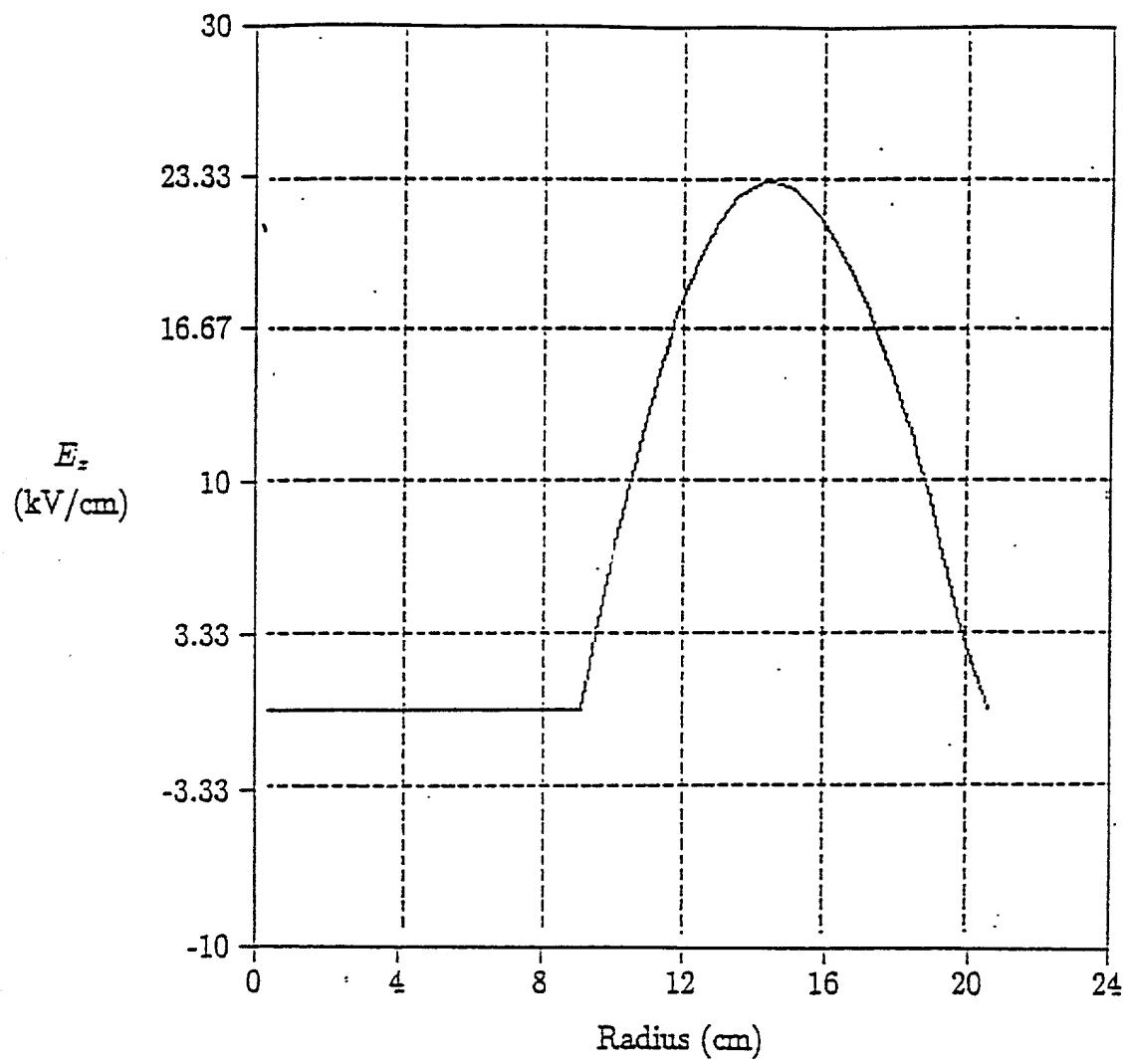


FIGURE 24

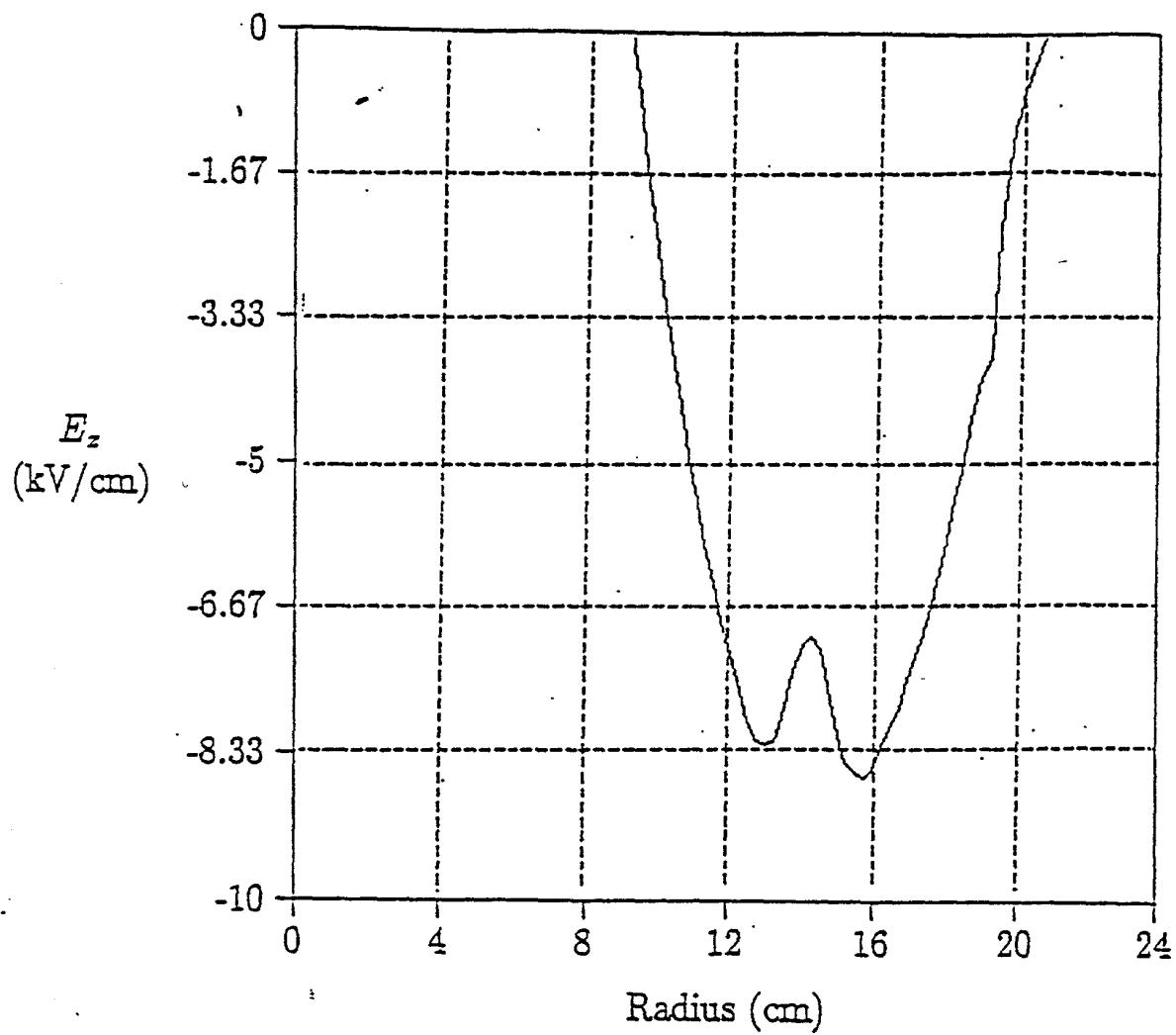


FIGURE 25

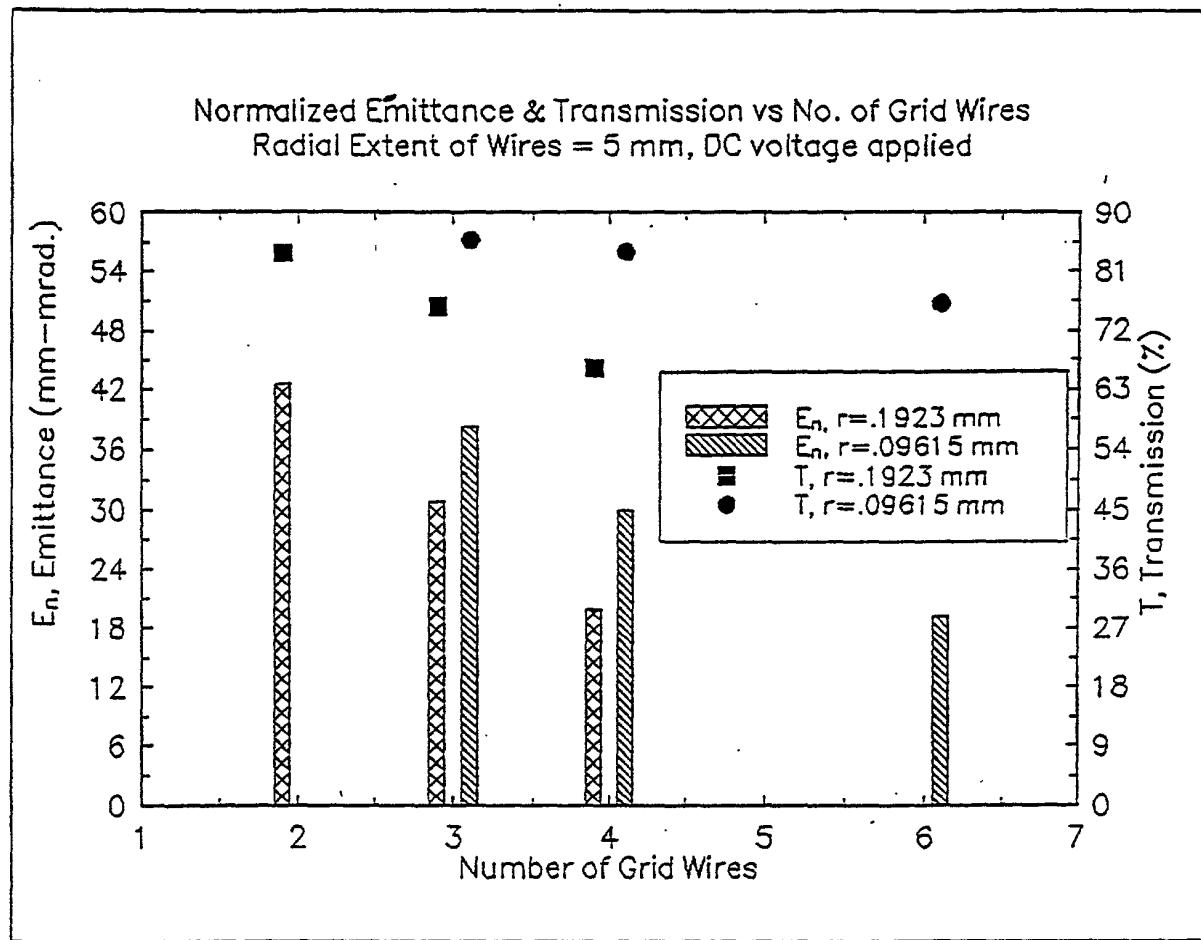


FIGURE 26

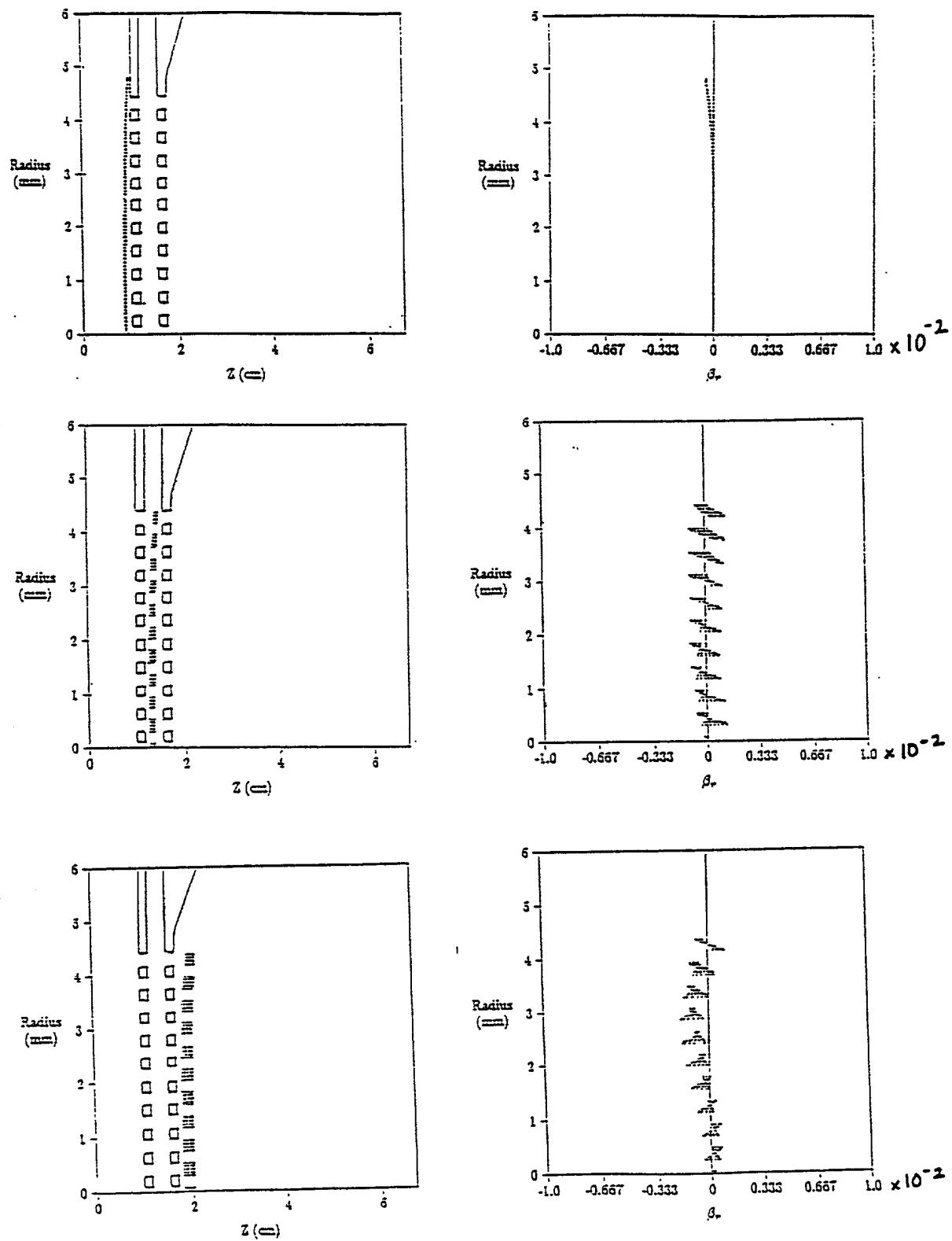


FIGURE 27

Normalized Emittance & Transmission vs No. of Grid Wires
Sinusoidal voltage applied.

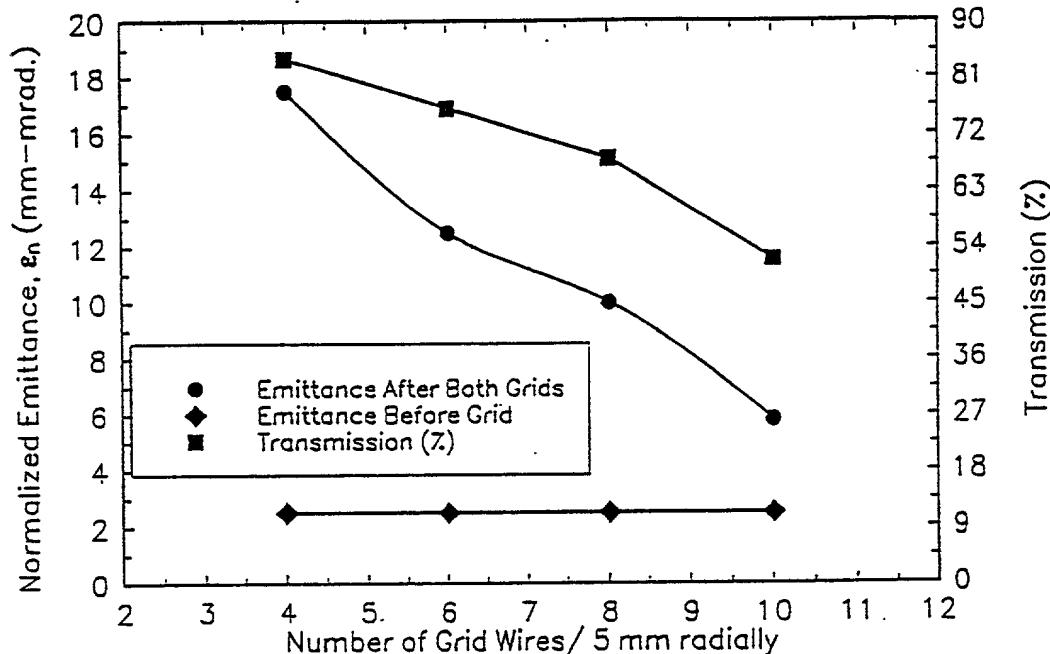


FIGURE 28

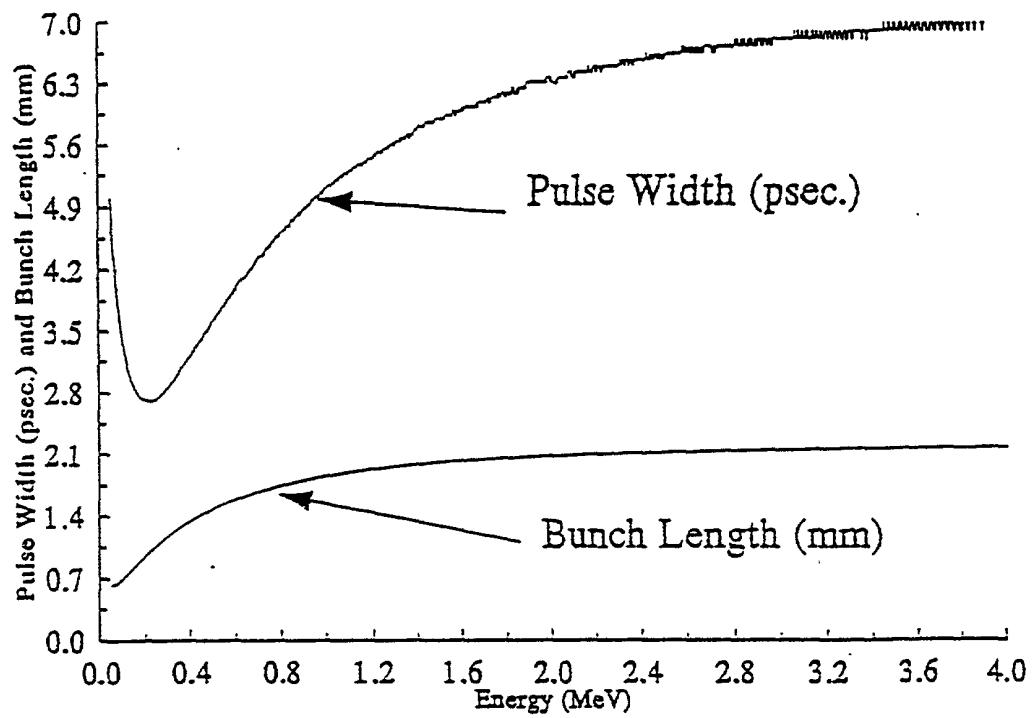


FIGURE 29

20 50 30 10 5 0 2 4 6 8 10 12 14 16 18 20

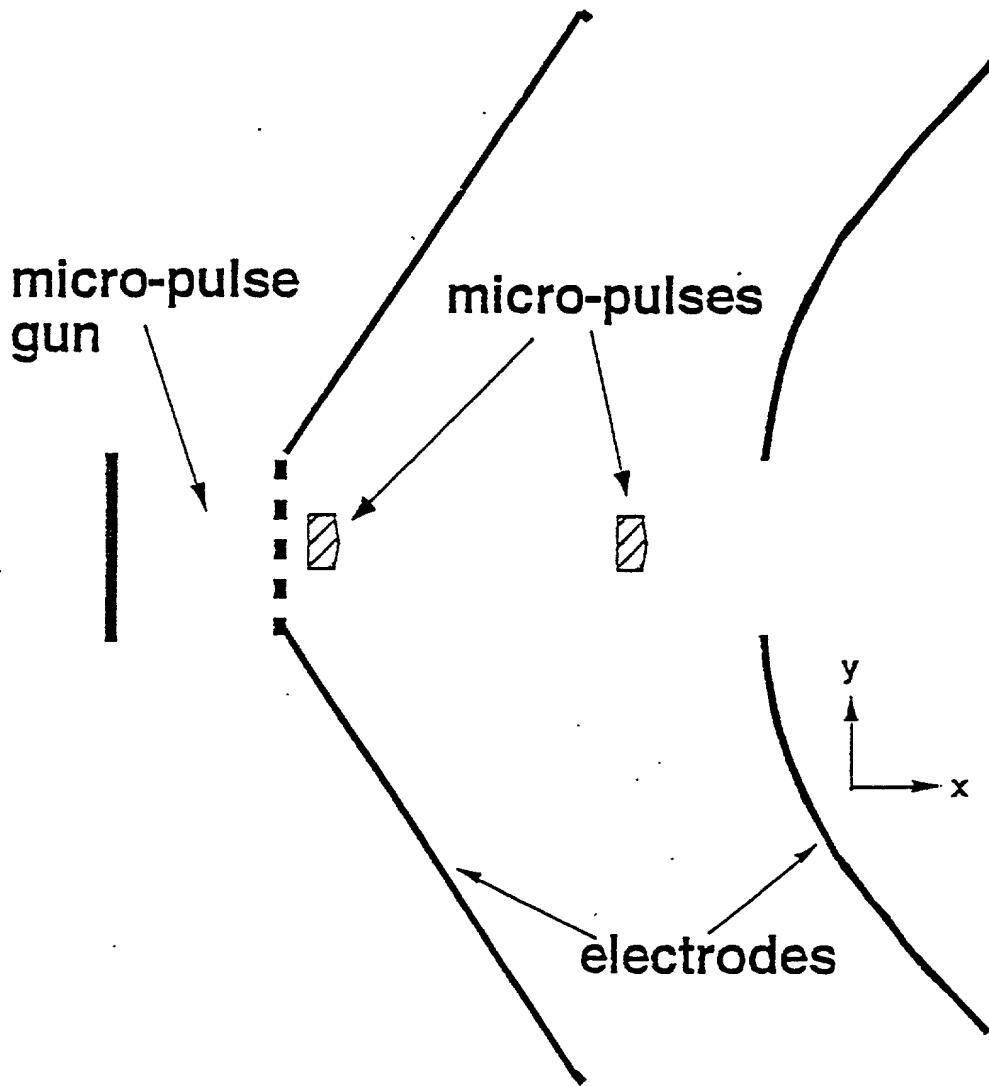


FIGURE 30

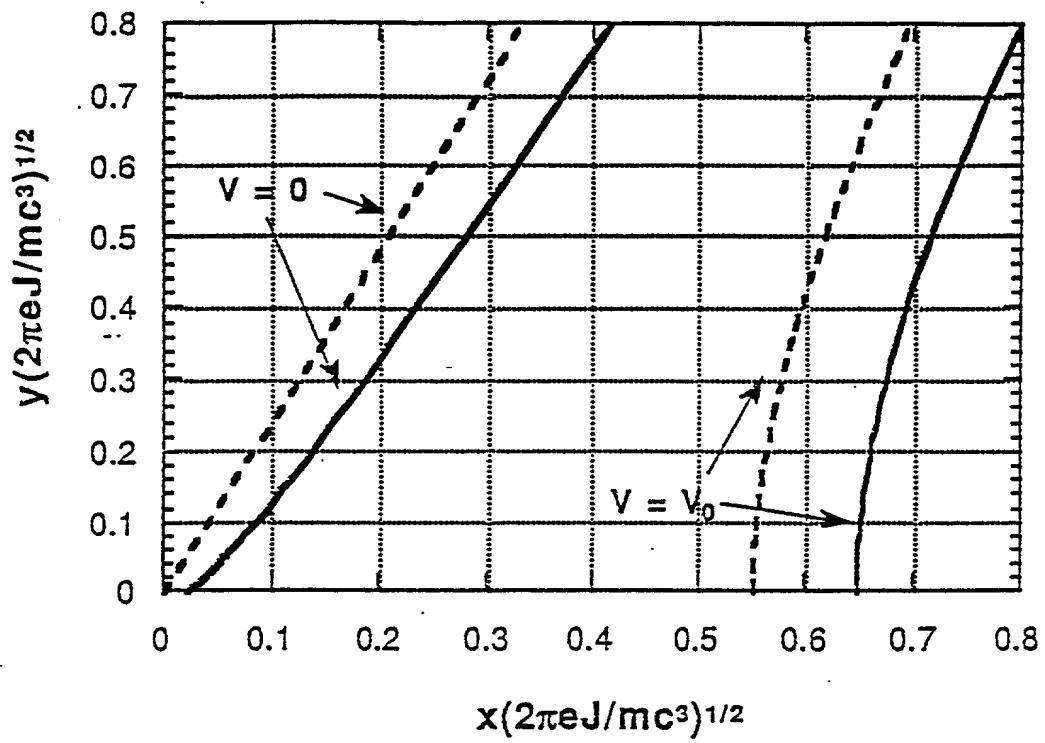


FIGURE 31

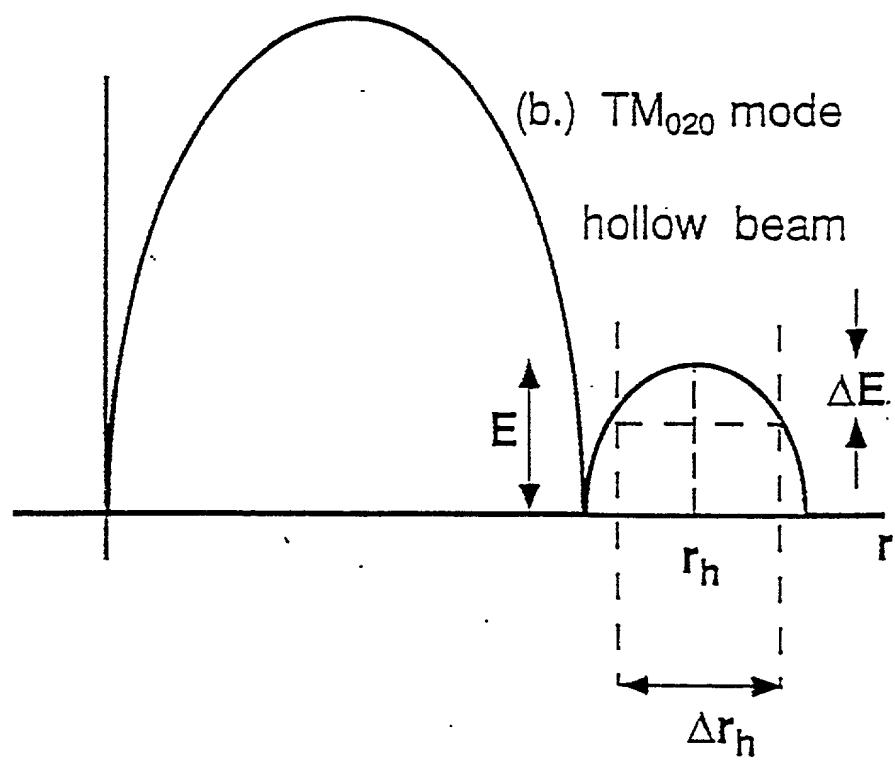
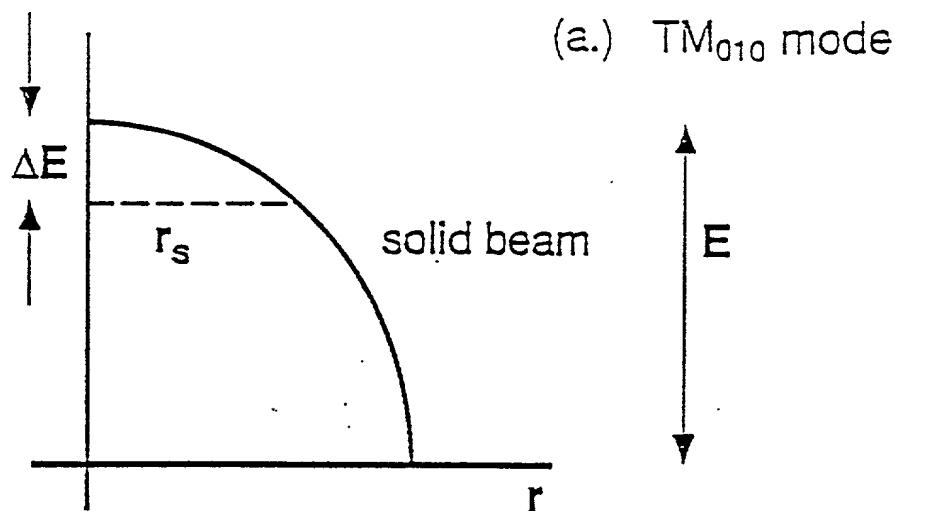


FIGURE 32

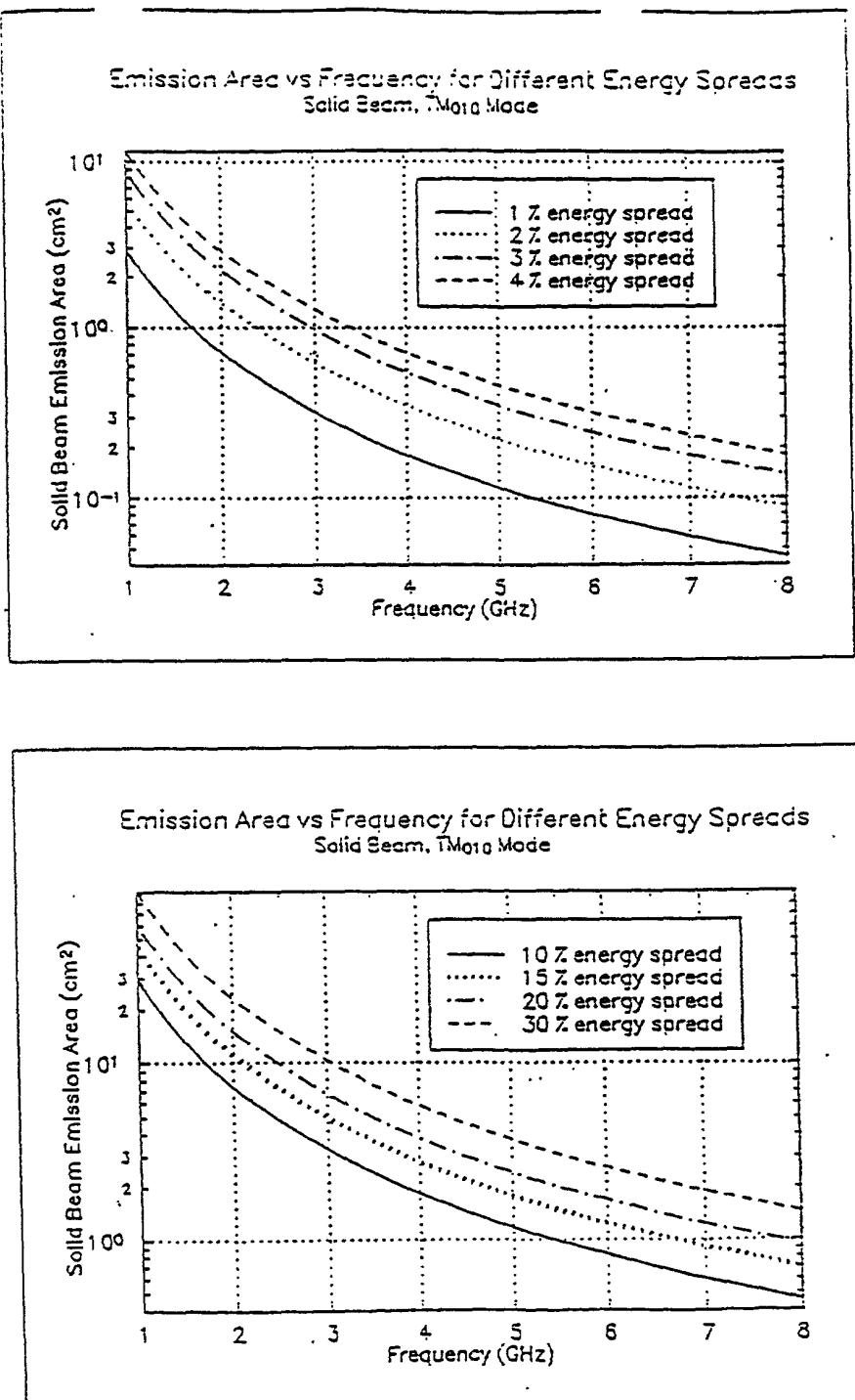


FIGURE 33

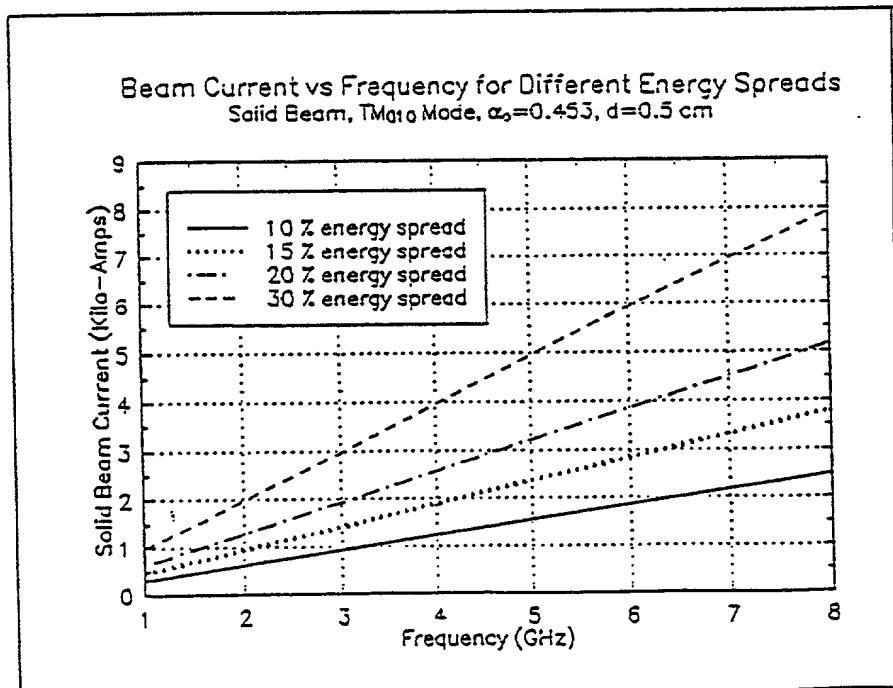
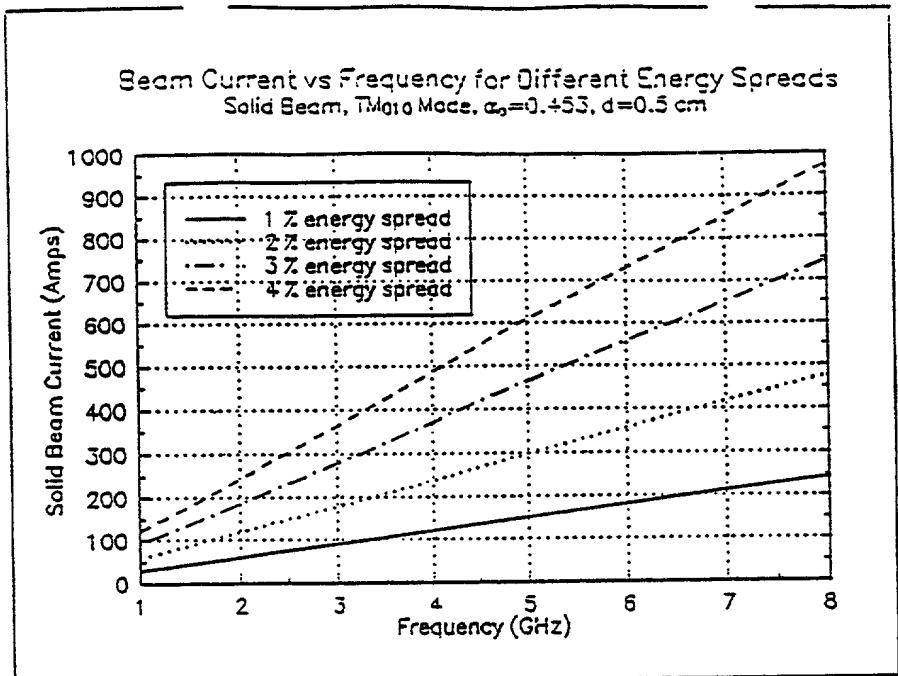


FIGURE 34

20 30 40 50 60 70 80 90 100 110 120 130 140

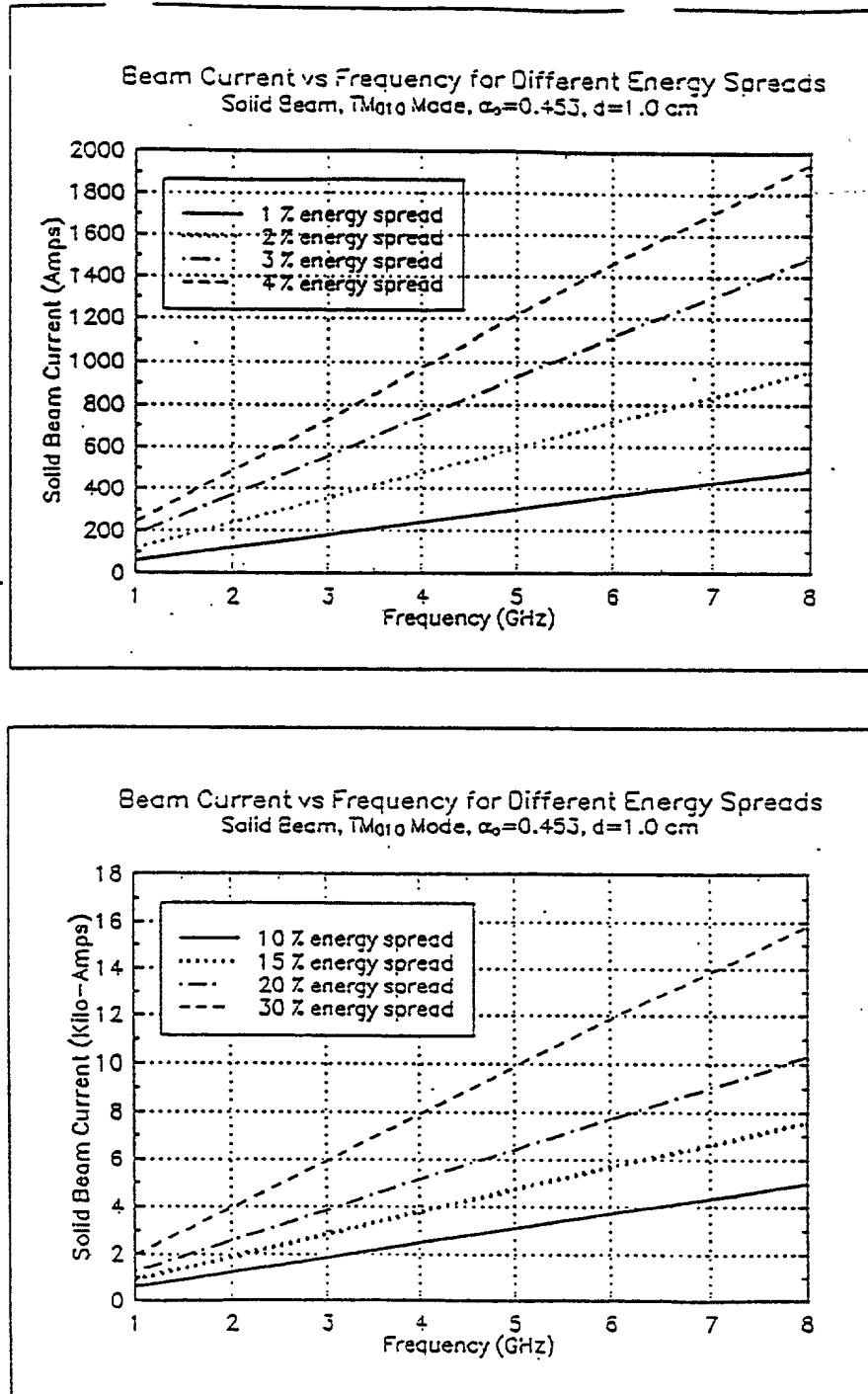


FIGURE 35

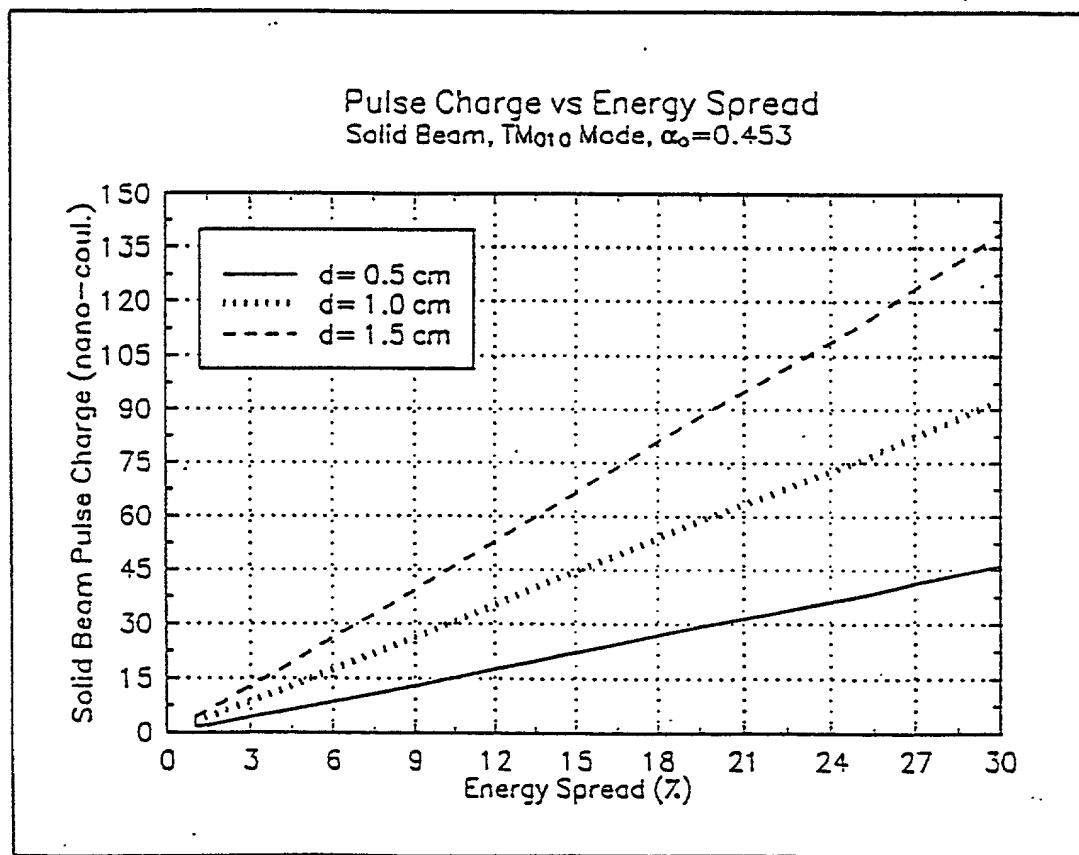


FIGURE 36

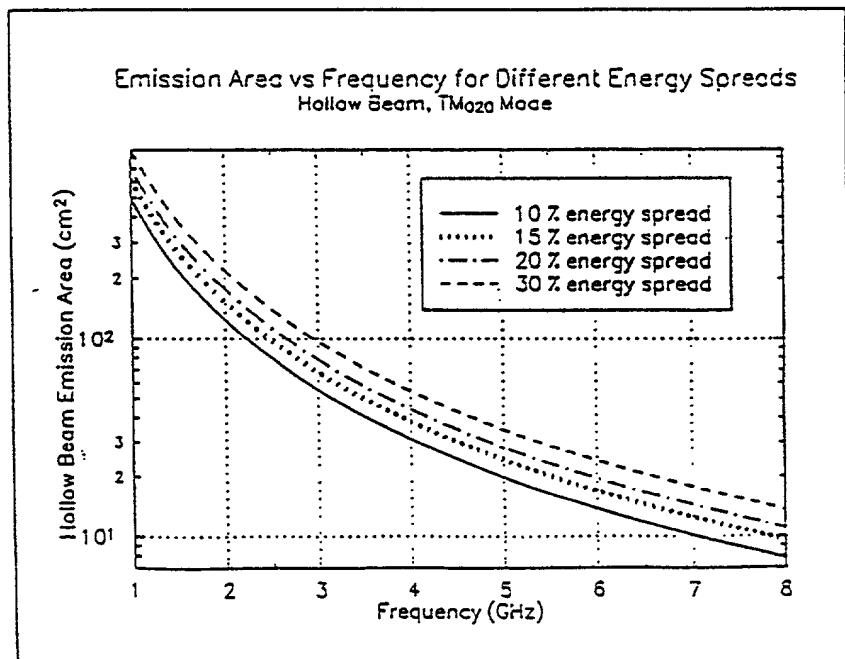
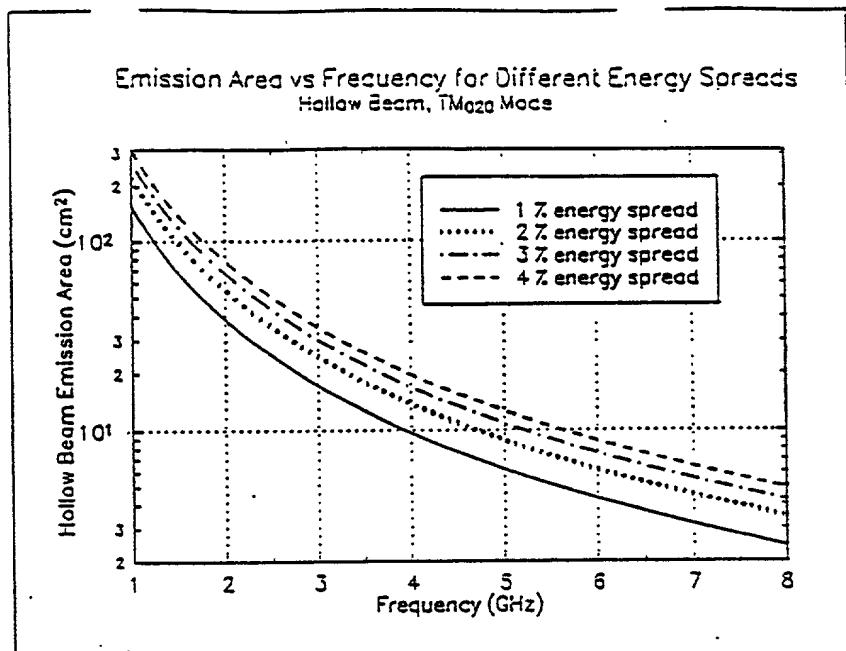


FIGURE 37

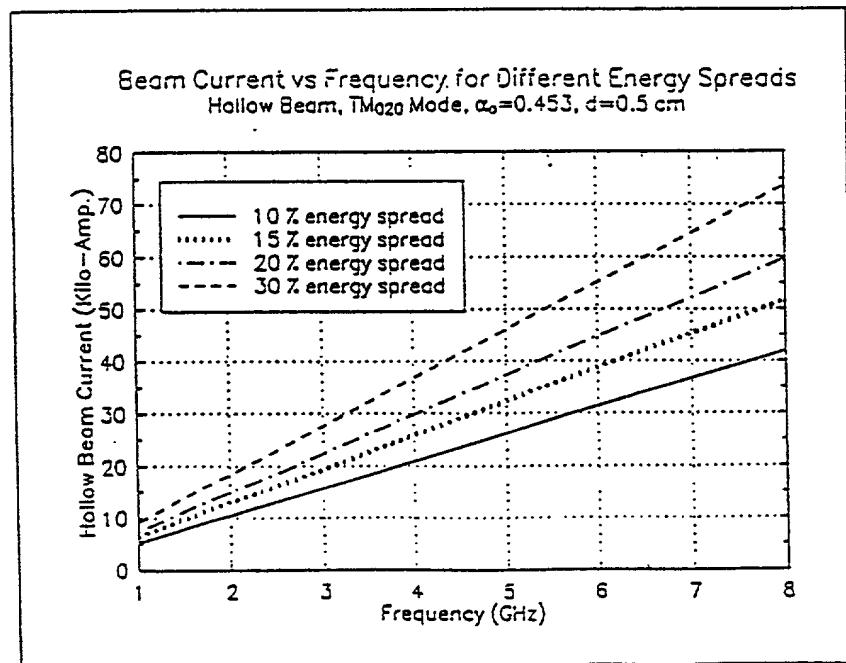
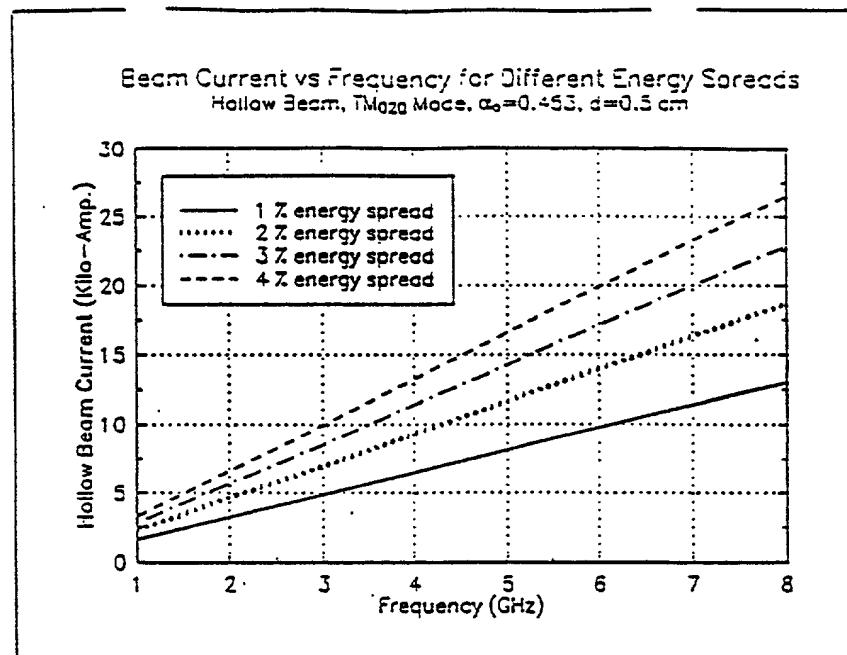


FIGURE 38

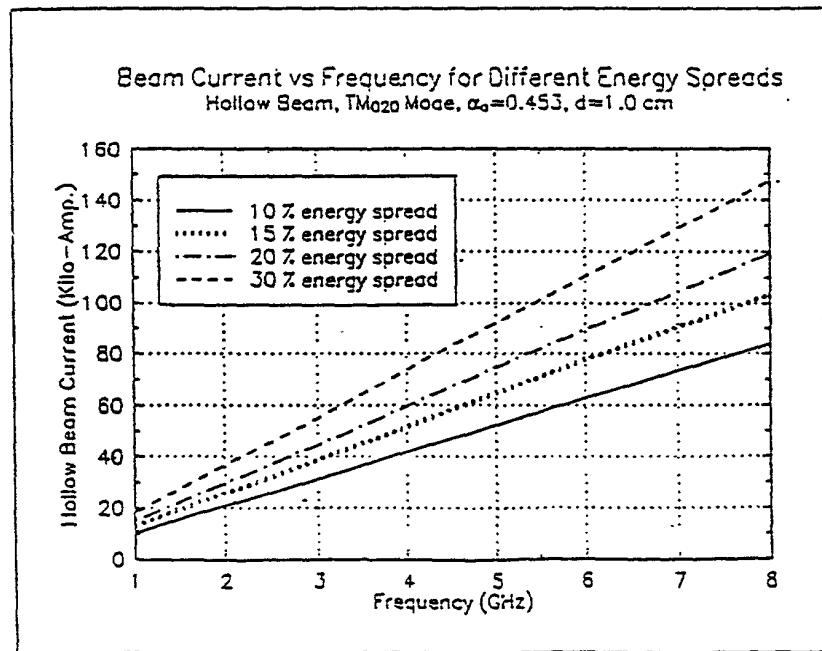
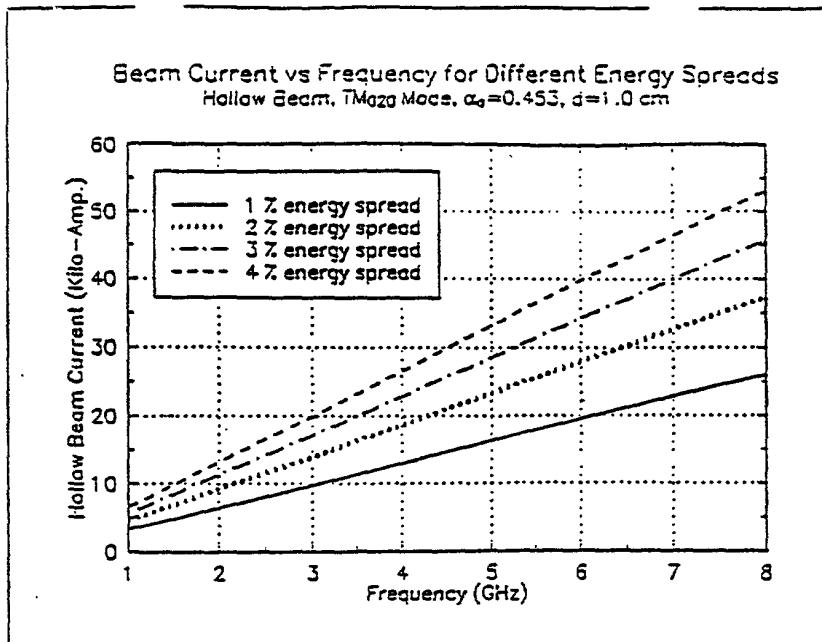


FIGURE 39

20 50 100 200 500 1000

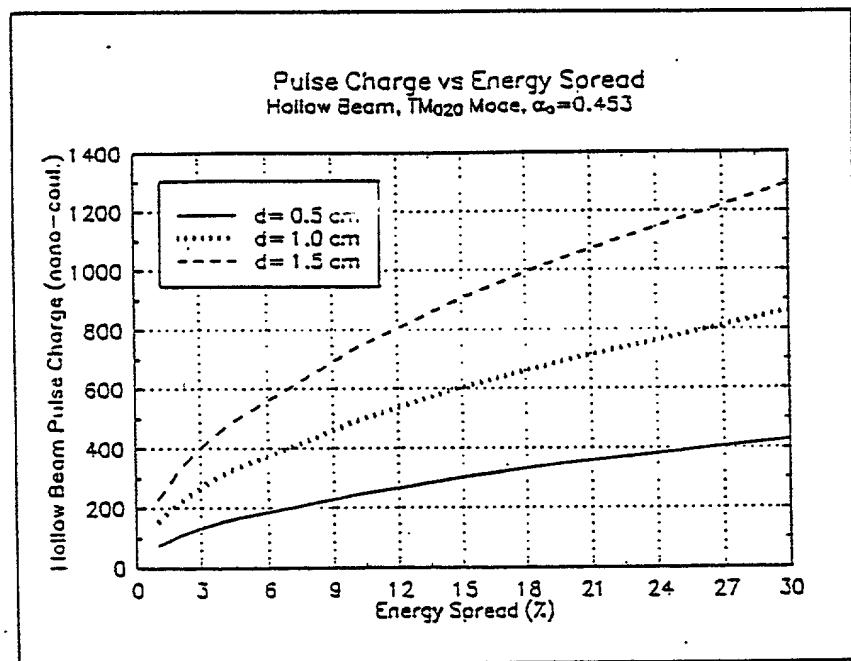


FIGURE 4D

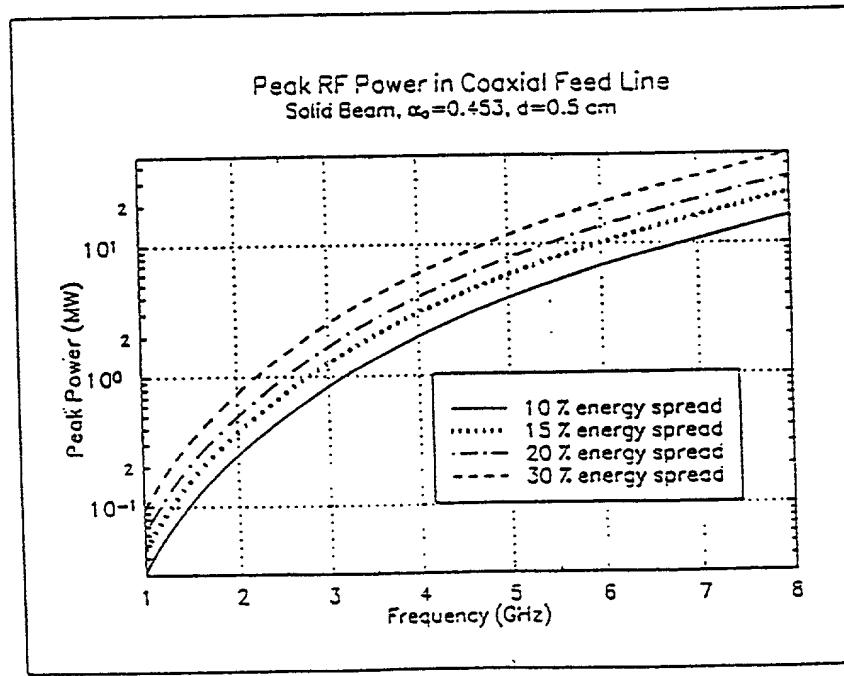
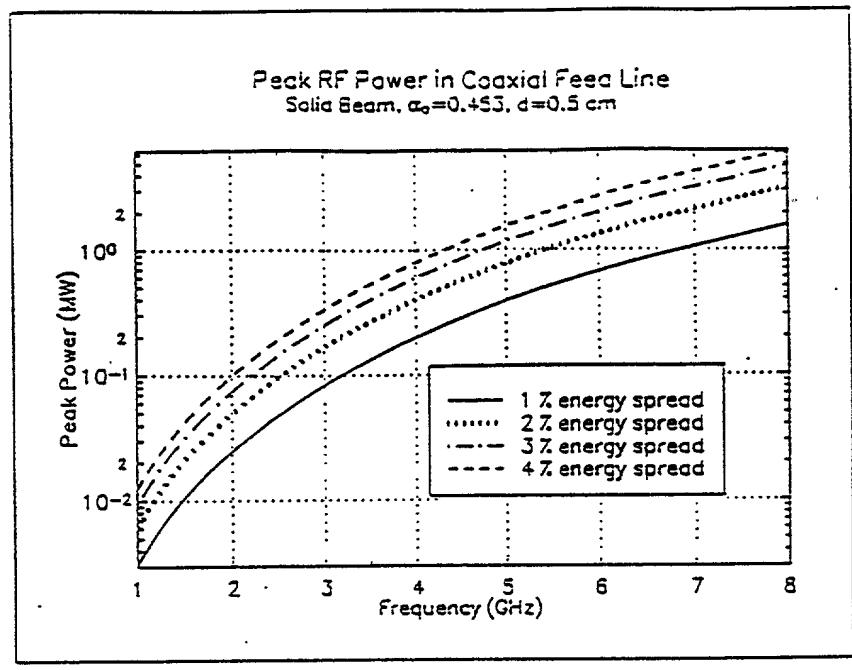


FIGURE 41

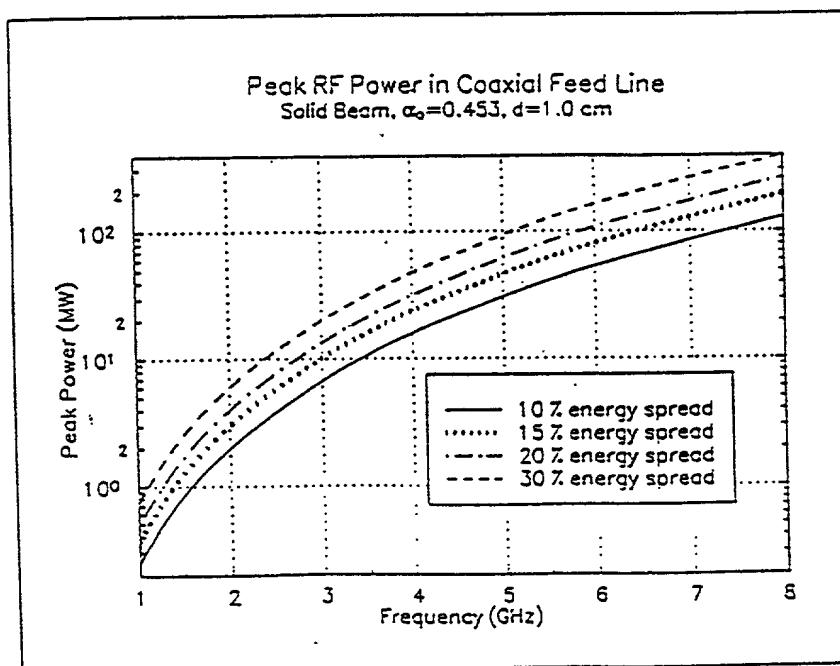
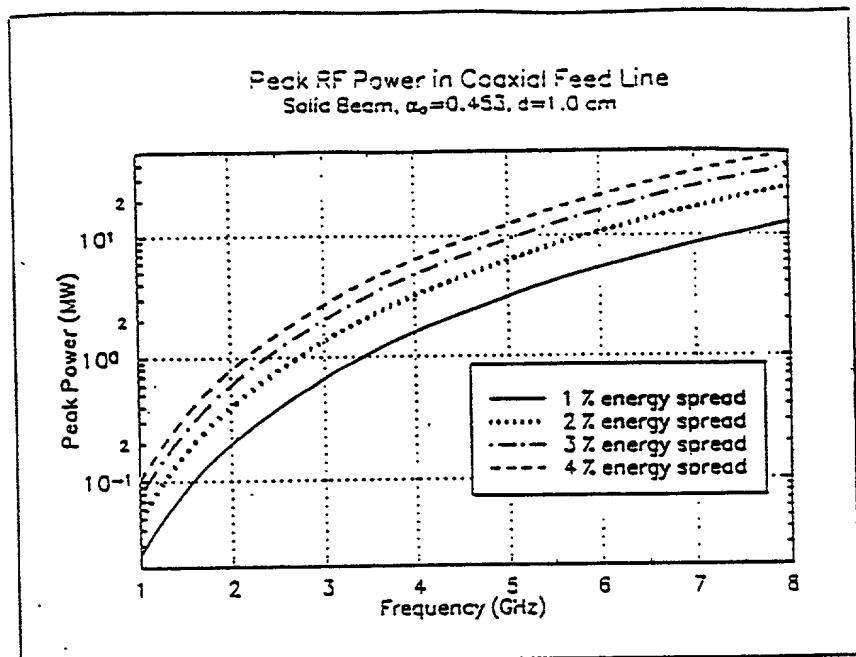


FIGURE 42

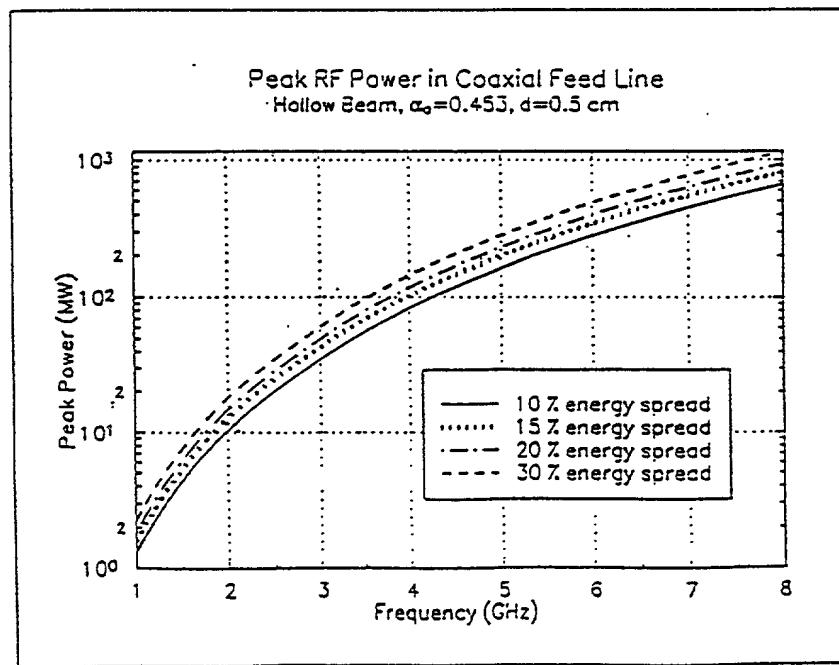
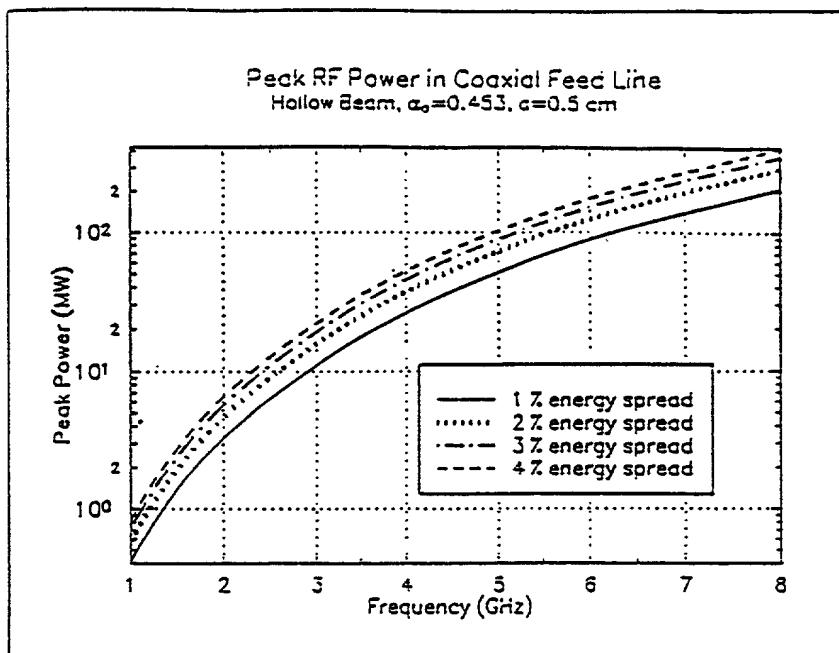


FIGURE 43

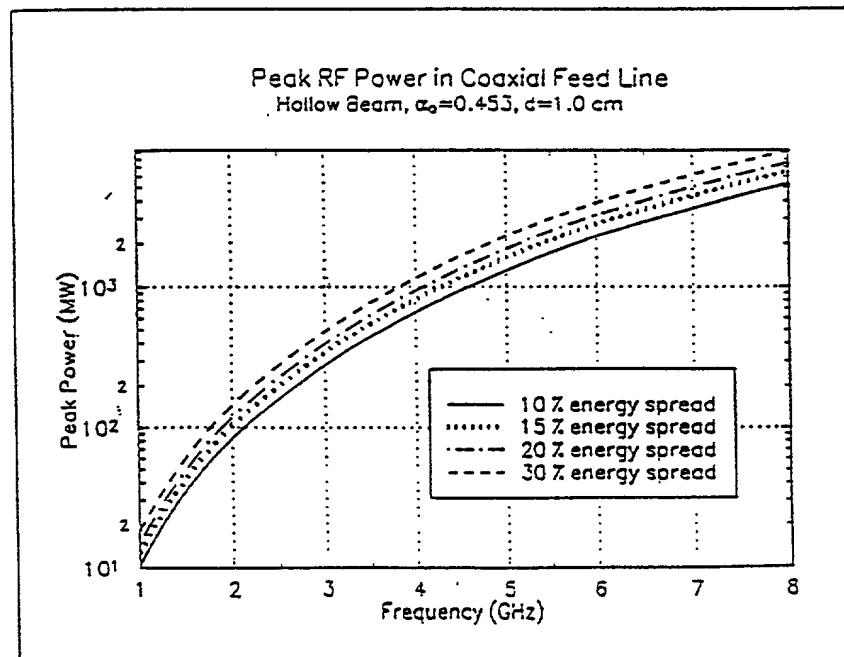
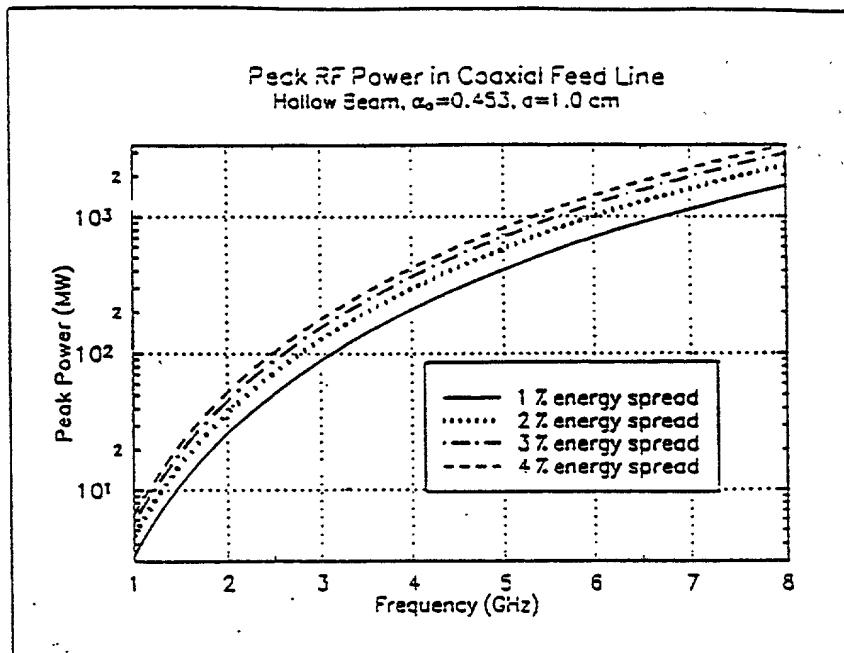


FIGURE 44

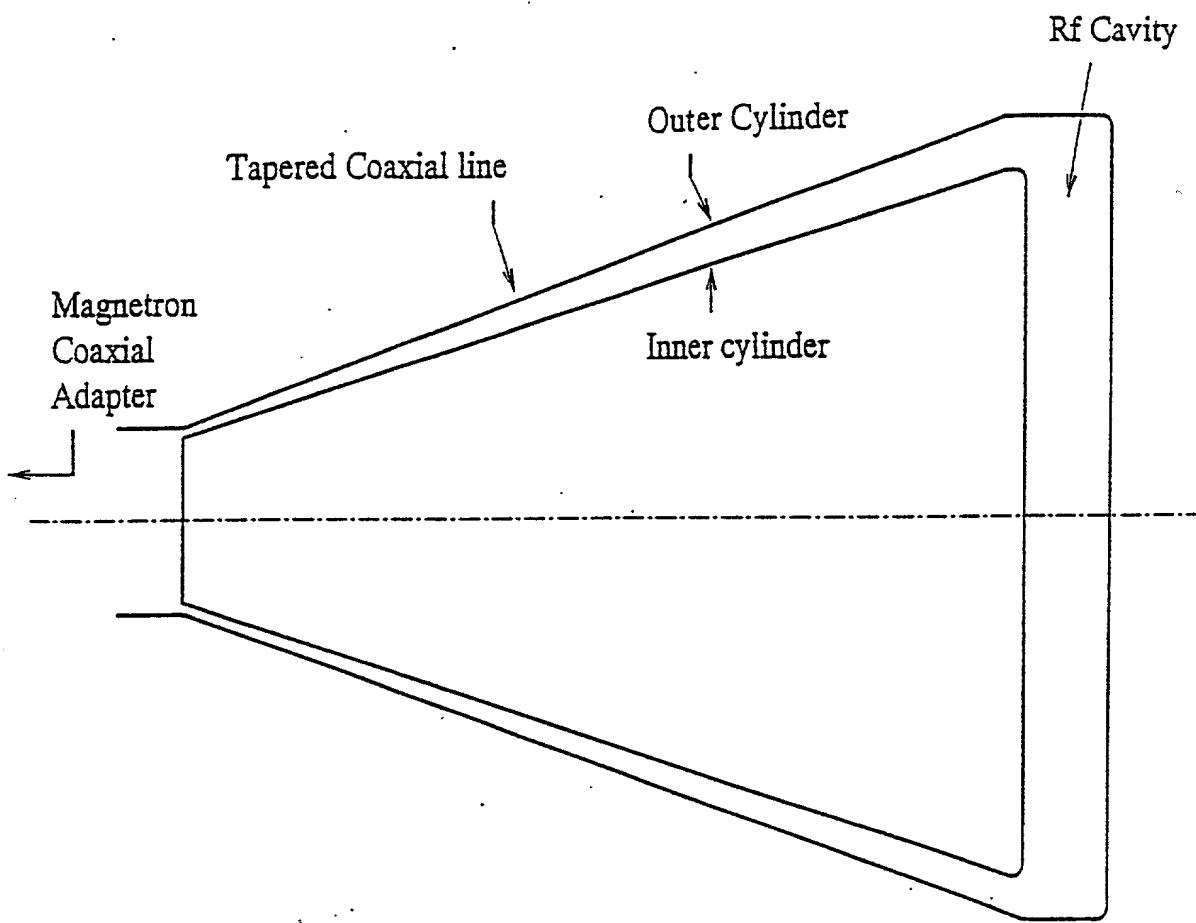


FIGURE 45

RF cavity
(side view)

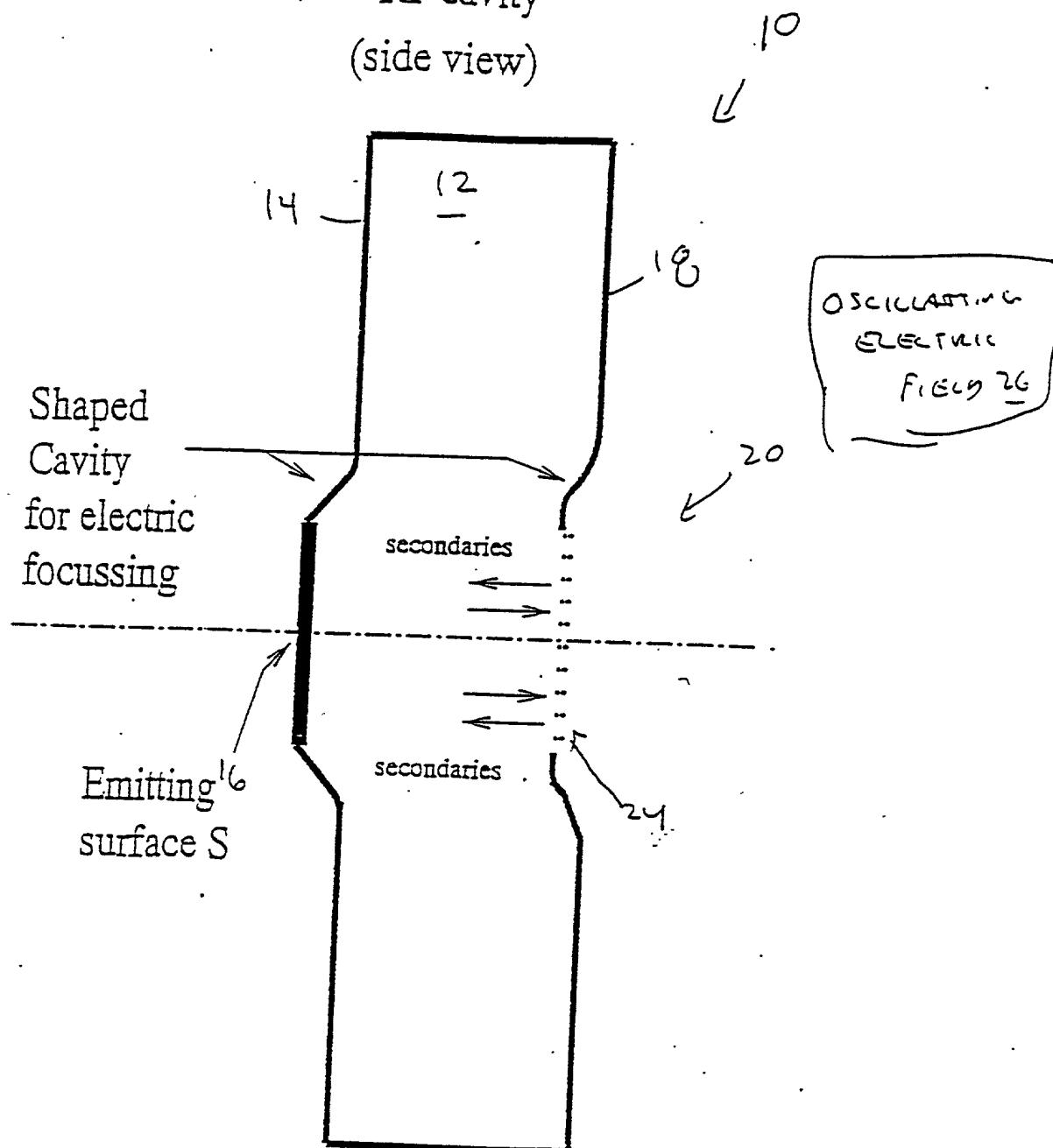


FIGURE 46